

BEFORE THE  
STATE WATER RESOURCES CONTROL BOARD

In the Matter of: )  
 )  
 )  
Amendment to the Water Quality Control )  
Plan for the San Francisco Bay/ )  
Sacramento-San Joaquin Delta Estuary: )  
San Joaquin River Flows and Southern )  
Delta Water Quality and on the Adequacy )  
of the Supporting Recirculated Draft )  
Substitute Environmental Document (SED) )  
\_\_\_\_\_ )

VOLUME II

PUBLIC HEARING

Modesto Centre Plaza  
Tuolumne River Room  
1000 K Street  
Modesto, CA 95340

Tuesday, December 20, 2016

2:20 p.m.

Reported by:  
Peter Petty

## APPEARANCES

### Board Members Present:

Felicia Marcus, Chair  
Frances Spivy-Weber, Vice Chair  
Tam M. Doduc  
Steven Moore  
Dorene D'Adamo

### Staff Present:

Thomas Howard, Executive Director  
Eric Oppenheimer, Chief Deputy Director  
Les Grober, Deputy Director of Water Rights  
Will Anderson, Water Resources Control Engineer  
Jason Baker, Staff Services Analyst  
Tina Cannon Leahy, Senior Staff Counsel  
Erin Mahaney, Senior Staff Counsel  
Yuri Won, Senior Staff Counsel  
Daniel Worth, Senior Environmental Scientist  
Yongxuan Gao, Water Resources Control Engineer  
Katheryn Landau, Environmental Scientist

### Also Present:

Bob Lloyd, Audio Visual Technician

### Public Comment (Volume I):

Anthony Cannella, Senator, 12th Senate District  
Heath Flora, Assemblyman, 12th Assembly District  
Kristin Olsen, Supervisor-Elect, Stanislaus County,  
District 1  
Chris Vierra, Mayor, City of Ceres  
Elaine St. John, Calaveras County Republican Party  
William O'Brien, Supervisor, Stanislaus County,  
District 1  
Dennis Miles, Supervisor-Elect, Calaveras County,  
District 4  
Adam Gray, Assembly Member, 21st Assembly District  
Vito Chiesa, Supervisor, Stanislaus County, District 2  
Steve Brandau, Council Member, City of Fresno  
Jim DeMartini, Supervisor, Stanislaus County, District 5  
Tom Changnon, Superintendent of Schools, Stanislaus  
County

APPEARANCES (Cont.)

Public Comment: (Volume I Cont.)

Terry Withrow, Supervisor, Stanislaus County, District 3  
Robert Rucker, District Director for Congressman Jeff  
Dunham  
Cathleen Galgiani, Senator, 5th Senate District  
Paul Campbell, Modesto Irrigation District  
Katherine Borges, Salida Municipal Advisory Council  
David White, Opportunity Stanislaus  
Jack Cox, Lake Tulloch Alliance  
David Minch  
Todd Sill  
Dennis Larson  
Vance Kennedy  
Jennifer Shipman, Manufacturer's Council of the Central  
Valley  
Greg Mayer  
Duane Marson  
Edwin Genasci  
Marty Lanser  
Don Barton  
Don Swatman  
Ted Brandvold, Mayor, City of Modesto  
Bill Zoslocki, Vice Mayor, City of Modesto  
Tony Madrigal, Council Member, City of Modesto, District 2  
Larry Parlin, Director of Utilities, City of Modesto  
Tom MacDonnell, Sierra Mac River Trips  
Patrick Koepele, Tuolumne River Trust  
Seth Connolly, Tuolumne River Trust  
Scott Schuettgen  
Dave Lyghtle, Denair Unified School District  
Martin MacDonnell, Sierra Mac River Trips  
Eric Gaine  
Will Derwin  
Meg Gonzalez, Tuolumne River Trust  
Paul Van Konyenenburg  
Sandra Anaya  
Ted Heilman  
Peter Stavrianoudakis  
Rodney Smith, Stratacon, Inc.  
Jason Bass, EcoGlobal Natural Resources

Public Comment (Volume II):

Doug Ridenour, Jr.  
Greg Tucker  
Michael Crowell

APPEARANCES (Cont.)

Public Comment: (Volume II Cont.)

Christina Bertia  
Nina Gordon-Kirsch  
Jessica "Jessie" Raeder  
Carol Fields  
Milt Triewweiler  
Kelly Covello  
William Wong, City of Modesto  
John Davids, Stanislaus and Tuolumne Rivers Groundwater  
Basin Association  
Wrangler Wheeler  
Dave Wheeler  
Jeff Fairbanks  
Carlen Jupe  
Chris Guptill  
Kent Mitchell  
Marisol O'Connor  
Stephen Endsley  
Jeralyn Moran  
Camille King  
Bob Triebisch  
Elaine Gorman  
Steve Boyd, Turlock Irrigation District  
Casey Hashimoto, Turlock Irrigation District  
Dr. Noah Hume, Stillwater Sciences  
Michael Frantz, Turlock Irrigation District  
Christine Gemperle  
John Stokman  
Joan Rutschow  
Kevin Kauffman, Eastside Water District  
Robert Marchy  
Jimi Netniss  
Phil Osterli  
David Quesenberry  
Danielle Veenstra, California Almond  
Gordon Hollingsworth  
Michael Cooke, City of Turlock  
Trish Anderson  
John Duarte  
Dan Lamb  
Pamela Sweeten  
Joey Gonsalves  
Wayne Zipser, Stanislaus County Farm Bureau  
Paul Wenger, Stanislaus County Farm Bureau  
Bill Lyons, Jr., Former California Department of Food and  
Agriculture Secretary  
Paul Vermeulen

APPEARANCES (Cont.)

Public Comment: (Volume II Cont.)

Ric Tilbury

Jacob "Jake" Verburg

Joyce Parker

Matt Dickens

Miguel Denoso

Leonard Van Elderen, Yosemite Farm Credit Association

Julianne Phillips

Greg Salyer, Modesto Irrigation District

Jake Wenger, Modesto Irrigation District

John Davids, Modesto Irrigation District

Ronda Lucas, Modesto Irrigation District

Anja Raudabaugh, Western United Dairymen

Paul Sousa, Western United Dairymen

INDEX

	<u>Page</u>
Introduction by Felicia Marcus, Chair	251
Public Comment	251
Panel Three	273
William Wong, City of Modesto John Davids, Stanislaus and Tuolumne Rivers Groundwater Basin Association	
Public Comment	281
Panel Four	306
Steve Boyd, Turlock Irrigation District Casey Hasamoto, Turlock Irrigation District Dr. Noah Hume, Stillwater Science Michael Franz, Turlock Irrigation District	
Public Comment	342
Panel Five	363
Michael Cooke, City of Turlock	
Panel Six	388
Wayne Zipser, Stanislaus County Farm Bureau Paul Wenger, Stanislaus County Farm Bureau Bill Lyons, Jr., Former California Department of Food and Agriculture Secretary	
Public Comment	408
Panel Seven	418
Leonard Van Eldersen, Yosemite Farm Credit Association	
Public Comment	430
Panel Eight	432
Greg Salyer, Modesto Irrigation District Jake Wenger, Modesto Irrigation District John Davids, Modesto Irrigation District Ronda Lucas, Modesto Irrigation District	

INDEX (Cont.)

Panel Nine	472
Anja Raudabaugh, Western United Dairymen	
Paul Sousa, Western United Dairymen	
Adjournment	492
Reporter Certificate	493
Transcriber Certificate	494

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

P R O C E E D I N G S

DECEMBER 20, 2016 2:20 P.M.

(On the record at 2:20 p.m.)

CHAIR MARCUS: All right. Our next set of speakers before the next panel will be Bob Hackamack followed by Doug Ridenour, Jr., Greg Tucker, Glenn Bakker, Michael Crowell, Alex Vanderstoel, Christina Bertia, Nina Gordon-Kirsch, Jessie Raeder, Carol Fields, Reid Johnson, Bill Maher, Dave Pratt, Jim Wisler, Joe Nijskens.

Okay. I know more people will come in. All right. Mr. Hackamack. Mr. Hackamack? All right. Maybe he left earlier than he said he had to leave.

Mr. Ridenour. Great. Mr. Ridenour, followed by Mr. Tucker, followed by Mr. Bakker. Thank you. Sir, please. Yes. Thanks for joining us.

MR. RIDENOUR, JR.: Good afternoon.

CHAIR MARCUS: Good afternoon.

MR. RIDENOUR, JR.: My name is Doug Ridenour, Jr.

CHAIR MARCUS: Ridenour. I'm sorry.

MR. RIDENOUR, JR.: That's all right. I'm with the Modesto Police Officers Association. Our association is the association that covers 198 Modesto police officers and detectives, so I appreciate the opportunity

1 to talk.

2           Fortunately for us, all morning, we've got some  
3 really good speakers, most of which are good friends of  
4 ours, who did a really good job of providing a lot of  
5 good information, so I'm actually not going to re-cover  
6 that. You guys already have that information.

7           The fact of the matter is that anything that  
8 affects our economy affects public safety and that's why  
9 we're here. That's why we're here to talk about that.  
10 Our fear is that anything that puts any type of  
11 restriction on our economy trickles down to us. Right  
12 now, we're down 30 officers. Right now, we have the  
13 highest fatality rate of car accidents since the creation  
14 of Modesto. We are having trouble with our public safety  
15 here already, and anything that will come down the  
16 trickle-down effect that will hurt our public safety is  
17 going to hurt the public.

18           So, that's our stance on it. That's why we  
19 support everybody here talking against this for right  
20 now. I think there's different ways of dealing with it.  
21 I think people need to get together and find a common  
22 area, a more balanced approach. And, again, I'm not  
23 going to go into everything that everybody has already  
24 covered.

25           So, I appreciate the time and I appreciate you

1 guys listening to everybody.

2 CHAIR MARCUS: No, thank you. Thank you for  
3 your service.

4 MR. RIDENOUR, JR.: Thank you. Have a good  
5 day.

6 (Applause.)

7 CHAIR MARCUS: Mr. Tucker, followed by  
8 Mr. Bakker, followed by Mr. Crowell.

9 MR. TUCKER: Yeah, good afternoon. Greg  
10 Tucker. I'm a full-time farmer. I have 20 acres. Well,  
11 I have 23, but about 20 in almonds, and it's what I do.

12 About three years ago, I put in a \$50,000  
13 system, which is substantial for a little guy like me,  
14 and I went to micro-sprinklers to try to reduce water for  
15 the drought. But according to TID, under the proposal  
16 put forth, we would have had no water the past two years.  
17 And I've got trees out there that are three years old. I  
18 wouldn't have been able to survive. I would have had to  
19 put in a well. Right now, I guess there's a two-year  
20 lead on well drillers because they're all backed up.  
21 And, for me, it's just not an option.

22 I live in the Denair area, which has been hit  
23 really hard. A lot of my neighbors' wells domestically  
24 have gone dry. And, right now, I'm just hoping that my  
25 domestic well will hold up. If this proposal goes

1 through, I would have to sell my farm.

2           My grandmother graduated from Ceres High in  
3 1929. So, I think that was the first class. Her picture  
4 is still up in the high school library there. And my  
5 mother grew up on a peach ranch on Hatch Road there.  
6 They got a road named after her maiden name. But it  
7 would be a shame to lose my farm, but I'm pretty sure  
8 that's what would happen. I don't think I could afford a  
9 \$120-, \$130,000 industrial well after I just got done  
10 putting all the improvements in for our irrigation system  
11 three years ago.

12           Thank you.

13           CHAIR MARCUS: Thank you, sir.

14           (Applause.)

15           CHAIR MARCUS: Mr. Bakker. Mr. Crowell, great.  
16 Followed by Mr. (sic) Vanderstoel -- I think I'm saying  
17 that right, Vanderstoel. And Ms. Bertia.

18           MR. CROWELL: Good afternoon, Board.

19           My name is Michael Crowell. I'm from Turlock,  
20 within the TID area. My family came into the area about  
21 the late 1890s. And my grandfather started irrigating in  
22 1902. And we've been in the farming and dairy business  
23 ever since.

24           And, so, I know a little bit about the  
25 district. I served 16 years as a TID board member. So,

1 I have some history in water. And I like history. I  
2 really enjoy history.

3 I just want to say that, you know, the TID and  
4 the Modesto Irrigation District were the earliest formed  
5 district in the country, 1887. And then along came  
6 Oakdale and Merced and South San Joaquin and so on. And  
7 everything went pretty nice.

8 And then the federal government came and built  
9 the CVP, Central Valley Project, and changed things quite  
10 a lot. They basically did away with -- we talk about the  
11 San Joaquin River, but there's really no such thing.  
12 There's no water coming down the San Joaquin.

13 When you talk about salmon support, it's a  
14 goner ever since the late 40s. And so, really, the  
15 tributaries have been the producer of water for any  
16 salmon on the so-called Tuolumne River.

17 After the CVP came in, and they were completed  
18 sometime in the late 40s, then-Governor Jerry Brown's  
19 father, Pat Brown, was responsible for building the State  
20 Water Project. And that project, which is to send water  
21 down the east -- or, pardon me, the west side of the  
22 Valley, and on over the Tehachapis and into the  
23 Los Angeles Basin and further on down into the San Diego  
24 area.

25 My point being, I guess, in talking about this

1 particular thing, really, it was the state project that  
2 broke the back of the Delta system. That's when things  
3 really went south, an overdraft was created by the state  
4 by Governor Brown. Now, Governor Brown wants to fix it  
5 on the back of these tributaries of which there is no  
6 more San Joaquin River.

7           You know, the question is, is you folks have  
8 these hearings as Phase 1. And, really, Phase 1 should  
9 be the water rights hearing, which is Phase 2, because  
10 you're not going to get any water from anywhere if you  
11 can't get it from them according to water rights and  
12 unless you're planning on changing water right laws. But  
13 if you can't even change regulations regarding predatory  
14 fish that are imported, you can't change water right  
15 laws. I mean, how can you do that? It would be -- how  
16 could that possibly be possible?

17           CHAIR MARCUS: Well, the water right proceeding  
18 would be Phase 3 and it would proceed according to  
19 seniority water rights law, which includes --

20           MR. CROWELL: Yeah, but I find that --

21           CHAIR MARCUS: -- public --

22           MR. CROWELL: I'm just saying that seems a bit  
23 convoluted to me because why even talk to anybody if you  
24 can't have their water. You know? I don't see how San  
25 Francisco wants to give their water up to Los Angeles.

1 You know?

2 CHAIR MARCUS: Yeah. That's actually not what  
3 it's about. But, you're right, there is a lot of process  
4 and procedure that would need to go forward --

5 MR. CROWELL: All I'm saying is, is my  
6 viewpoint is, if you need more water, the first thing you  
7 do is you shut off the junior water-right holder and see  
8 what happens to the Delta. That would be, of course,  
9 precipitous of the State Water Project. That being, I  
10 would cut the pumps off right at Bakersfield and see how  
11 much water you get in the Delta then.

12 CHAIR MARCUS: Yes. When we get to the water  
13 rights allocation for Delta outflow --

14 MR. CROWELL: Yeah.

15 CHAIR MARCUS: -- it will be based on  
16 seniority.

17 MR. CROWELL: I guess I'm just saying you're  
18 putting the people through a lot of worry right now. And  
19 unless you can change water rights in California -- and  
20 it's not just California. Then we get into the fact that  
21 as a property owner in Turlock, the land -- I don't own  
22 the water rights, but my land does. And that land  
23 is -- that's a property right. So, that makes it a  
24 taking. You see? The federal courts --

25 CHAIR MARCUS: Yeah, I don't --

1 MR. CROWELL: -- won't go for taking.

2 CHAIR MARCUS: I actually don't want to get  
3 into a legal argument with you about --

4 MR. CROWELL: Yeah.

5 CHAIR MARCUS: -- the public trust and how it  
6 relates to water rights, but your time is up and I want  
7 to get to some of these other people.

8 MR. CROWELL: Yeah. Well --

9 CHAIR MARCUS: I appreciate what you had to  
10 say.

11 MR. CROWELL: Anyway, my viewpoint --

12 CHAIR MARCUS: It actually is helpful.

13 MR. CROWELL: -- is putting water rights at the  
14 end of the proceedings is absolutely backwards because,  
15 you know, there's no way you're ever getting water rights  
16 from TID or San Francisco. I just don't see it. You  
17 know? These are pre-1914 rights.

18 CHAIR MARCUS: Correct. Correct.

19 MR. CROWELL: Thank you.

20 CHAIR MARCUS: Yeah. All are subject to public  
21 trust, I hate to tell you.

22 (Applause.)

23 CHAIR MARCUS: Mr. Crowell. Oh, that was  
24 Mr. Crowell.

25 Mr. Vanderstoel -- or Ms. Vanderstoel.

1 Ms. Bertia. I'm sorry, I can't read it. Please correct  
2 me.

3 MS. BERTIA: Hi. It's Christina Bertia.

4 CHAIR MARCUS: Thank you.

5 MS. BERTIA: I'm with Women Eco Artists  
6 Dialogue. And I'm here to speak for the sturgeon since  
7 they can't be here obviously to speak for themselves.

8 CHAIR MARCUS: No one has come to speak for the  
9 sturgeon yet, so thank you.

10 MS. BERTIA: So I once made a 20-foot sturgeon  
11 art piece for a show to remind us that they used to be  
12 20-foot long and they used to weigh 2,000 pounds right  
13 here in our Delta. And they're like a  
14 240,000,000-year-old species that existed before the  
15 dinosaurs. And they are actually still here with us, but  
16 they're having a really hard time.

17 They're very sensitive to our pesticides and  
18 our toxins. They bioaccumulate heavy metals because they  
19 live to be over 100 years old. They're just amazing.  
20 And they are very sensitive to oxygen levels and to  
21 temperature. So, you know, when the algal blooms, it  
22 really impacts them.

23 But the biggest problem that they have is that  
24 they also go upstream to spawn just like salmon do, but  
25 they can't get past the dams. There's dams everywhere

1 where they would normally go to spawn. And, so, what  
2 they're finding from current research is that they can  
3 only reproduce in years when there are high flows. They  
4 need heavy flows simply to reproduce, simply to be able  
5 to spawn in the lower reaches of their rivers.

6           The reason is that they're -- because they're  
7 sensitive to oxygen levels, they need a lot of flow  
8 around the eggs, they need the flow to be clearing the  
9 silt out of the gravel so that the eggs literally don't  
10 smother, and they need that flow for the fry to be able  
11 to go down stream, and they need floodplains for the fry  
12 to be able to spend time and safety feeding and getting  
13 larger. Because they do go out to the ocean just  
14 like -- to the estuaries and the ocean just like the  
15 salmon do.

16           So, they're really incredible. And you could  
17 say, "Well, who cares?" You know? I'm here saying, yes,  
18 let's maintain the flow you're recommending so that they  
19 can continue to exist. Well, who cares? Well, we  
20 actually should care because they're a key species that  
21 maintains the ecosystem health of the whole Bay-Delta.  
22 What they do is they control invasive species. They  
23 especially eat the overbite clam, which is a problem.  
24 And they bioturbate and oxygenate the sediment layer so  
25 it keeps it alive instead of going anoxic and becoming a

1 dead zone.

2           And, so, I submit that they have a right to  
3 thrive and that -- just because of the services they  
4 offer. And I hope that we will also serve the ecosystem  
5 by maintaining heavy flows for them.

6           Thank you.

7           CHAIR MARCUS: Thank you. Thank you for  
8 mentioning ecosystem. It's more complex than the  
9 dialogue sometimes sounds on all sides, actually.

10           Next, we have Nina Gordon-Kirsch, followed by  
11 Jessie Raeder, followed by Carol Fields.

12           MS. GORDON-KIRSCH: Hello.

13           CHAIR MARCUS: Hello.

14           MS. GORDON-KIRSCH: My name is Nina  
15 Gordon-Kirsch. I'm from Berkeley, born and raised, and  
16 got a degree in environmental science and then was  
17 awarded a Fulbright scholarship to study in Israel and  
18 Palestine.

19           I studied wastewater reuse and specifically for  
20 the purpose of irrigation, and I ended up staying in  
21 Israel for my Master's Degree to learn what they have to  
22 say about using wastewater for irrigation.

23           I currently work in Oakland for Outward Bound  
24 taking thousands of youth every year out on backpacking  
25 trips, and I've seen firsthand the nature experiences

1 that have caused transformation in our youth.

2 I also currently am in a relationship with  
3 someone born and raised in Turlock, and it gives me a lot  
4 of respect for the agriculture industry. And I currently  
5 buy Gallo wine when I go to the grocery store, and have  
6 now a personal connection to the Central Valley.

7 What I see here today is an opportunity for us,  
8 everyone here, and the whole State of California to work  
9 together to find more efficient use of our water  
10 resources. On my Fulbright, I learned that Israel reuses  
11 about 90 percent of their wastewater for irrigation. We  
12 have an opportunity here in California to do that as  
13 well. We currently use less than one percent.

14 If we have higher flow rates in our rivers,  
15 then we'll be forced to look to other water  
16 efficient -- efficiently use our water resources. It  
17 will create new jobs for people like me who want to be  
18 involved in California's water in the future.

19 I encourage you to require half the natural  
20 flow from the Stanislaus, Tuolumne and Merced to get into  
21 the Bay-Delta, and push our State of California to invest  
22 in efficient irrigation and water recycling processes.

23 Thank you.

24 CHAIR MARCUS: Thank you very much.

25 (Applause.)

1 CHAIR MARCUS: There's going to be a future in  
2 diplomacy somewhere for you.

3 Jessie Raeder, followed by Ms. Fields, followed  
4 by Reid Johnson.

5 MS. RAEDER: Hi. I'm Jessie Raeder. I am the  
6 president of a coalition called SalmonAid. That's a  
7 group to help salmon, not a salmon-flavored beverage. We  
8 have a coalition of fishing groups, environmental groups,  
9 tribes, and restaurants and chefs that are interested in  
10 sustainable salmon in California, and I'm here today  
11 mostly to represent my friends in the commercial fishing  
12 and -- the commercial and recreational fishing industries  
13 and groups.

14 The fishing community, which has been a  
15 significant economic driver in California, has been  
16 devastated by what's been happening slowly over time to  
17 the salmon populations due to our unsustainable water  
18 diversions.

19 There used to be 10,000 commercial fishing  
20 permits issued every year, and now it's less than 2,000.  
21 In 2008 and 2009, the fisherman selflessly and willingly  
22 agreed to cancel the fishing season entirely, canceling  
23 2,000 jobs and causing a loss of a quarter billion  
24 dollars in annual revenue all to protect the resource.

25 Respectfully, the agricultural community could

1 and should be asked to put the public good first as well.  
2 Of course, economic considerations are important. Today,  
3 we keep hearing about the hurting economy in the Central  
4 Valley. Given that this plan is not yet in place, I  
5 would like to respectfully suggest that this plan maybe  
6 isn't the problem and there are larger forces at play.

7           Regardless of this plan, agriculture is going  
8 to be forced to work on better management,  
9 water-efficient irrigation technologies and practices and  
10 replacing lower value water-intensive crops with higher  
11 value water-efficient crops. It's possible to grow more  
12 food with less water.

13           In California, water is a public trust  
14 resource, meaning it belongs to the people of California.  
15 We can all agree, I think, that food grown for  
16 Californians is a beneficial use of that water. I think  
17 that's a harder argument to make when we're talking about  
18 exports. And, currently, a lot of it is for export.

19           I think that Californians would agree that  
20 preserving such a high-quality local protein like salmon  
21 is a greater benefit than subsidizing corporations who  
22 are growing almonds for export, especially in areas where  
23 almond trees just aren't the most sustainable or suitable  
24 crop.

25           Is that my time?

1 CHAIR MARCUS: Yup. So, you should wrap.

2 MS. RAEDER: I want to wrap up by saying that,  
3 you know, your own scientists have suggested that  
4 60 percent is what's needed to protect the resource. And  
5 I know that we've entered this post-science post-fact  
6 sort of era in the national scene, but I think that this  
7 is California, we've heard a call from the governor that  
8 California needs to be a stronghold of respecting  
9 science, and so I ask you to do that today.

10 Thank you.

11 CHAIR MARCUS: Thank you very much.

12 Ms. Fields, followed by Mr. Johnson, followed  
13 by Mr. Maher.

14 MS. FIELDS: Thank you for your work in damage  
15 control of the ecosystem. What we're talking about is  
16 just totally gigantic, so it's a very big job, and damage  
17 control is what I think it is. And it's doing the best  
18 with not too much to deal -- work with, which is what  
19 everyone here is noticing: They don't have enough to  
20 work with.

21 I want to present for food for thought a very  
22 disturbing report, which I don't know if any of you have  
23 read this report called, "*Prolonged California Aridity*  
24 *Linked to Climate Warming and Pacific Sea [Surface]*  
25 *Temperature.*" This was published this year. And this

1 notes that past drought -- there was a past drought here  
2 of 5,000 years and another one of 300 years. That, right  
3 there, was a stopper.

4 But the fact is that that has happened, and it  
5 occurred when there was warming. That warming, it seems  
6 to have been caused by the sun, or whatever it was, but  
7 it was a warming period. The droughts went away when the  
8 warming went away. And this has been shown by studies in  
9 the Sierra and all the lakes and so forth here.

10 And, so, my point is just we're kind of in a  
11 bad place. And that was the bad news. And the good news  
12 is we're next to the Pacific Ocean, we have a lot of sun,  
13 we could start using alternative energy like solar and  
14 wind energy. We have one company now that has applied to  
15 put floating wind turbines off our coast, way out where  
16 the wind blows all the time. And since I come from a  
17 Navy family, I sure would like to see one of our big dry  
18 dock ships out there. I would love it if it was my dad's  
19 aircraft carrier doing desal out there powered by wind  
20 and solar, offering energy and combatting global warming.

21 Thank you.

22 CHAIR MARCUS: Thank you.

23 (Applause.)

24 CHAIR MARCUS: Mr. Johnson, followed by

25 Mr. Maher, followed by Mr. Pratt.

1           Mr. Johnson. Mr. Maher. There you go, right  
2 there.

3           MR. MAHER: Good afternoon, Board members. My  
4 name is Bill Maher. I'm a former member of the San  
5 Francisco Board of Supervisors and a board member of the  
6 Tuolumne Trust.

7           I want to preface my remarks by saying that  
8 support for the Substitute Environmental Document does  
9 not mean a lack of concern for our Central Valley fellow  
10 Californians.

11           I'm not opposed to negotiations, as long as  
12 those negotiations are timely and they maintain an  
13 authentic balance of uses.

14           Population change and climate change are going  
15 to be tremendous and scary changes to the Central Valley  
16 no matter what we do. And we can try to allay them in  
17 some ways, but they're going to happen. I think probably  
18 the best thing we can doing for the Central Valley in a  
19 lot of ways is advocate for significant state economic  
20 support for them.

21           Whenever science leads to an unpalatable  
22 choice, a common tactic is attack the science.  
23 Cigarettes and smoking come to mind, sugar and diabetes,  
24 global warming, and now water.

25           The SED has been subject to attacks before it

1 was ever even put out, and they were organized and  
2 strategic to say, "This is how we have to kill this thing  
3 because we don't want it to happen." It's good science.  
4 It may have minor errors, everything does. But the  
5 science is authentic and it's accurate.

6           You know, this Board has been accused of being  
7 disinterested in Central Valley opinions, but you've met  
8 with all their opinion leaders and now you've had three  
9 meetings in the Central Valley, and I might add, not one  
10 in the more populous Bay Area that might have a different  
11 perspective.

12           I think the Central Valley has not been  
13 ignored. I don't think their problems are going to go  
14 away. I think they're real, but the solution is not to  
15 destroy the rivers.

16           I just want to close by saying, if the  
17 alternatives proposed different ways to make do with  
18 less water really worked, that would be fine, but they  
19 haven't worked. Somaybe what it is, it's time to pass  
20 this, and then if the Central Valley can make them work,  
21 you have flexibility in that plan to give them more water  
22 as they demonstrate that it actually works.

23           Thank you very much for your time and God bless  
24 you for your endurance.

25           (Applause.)

1 CHAIR MARCUS: Thank you for joining us.

2 Mr. Pratt. We'll contact all these folks.

3 Mr. Wisler. Mr. Nijskens. Okay. I'm just  
4 going to take a few more and then I'll move to the next  
5 panel because we do have a lot of panels of very good  
6 people. Milt Trieweiler, Kelly Covello, Katja Irvin.

7 MR. TRIEWEILER: Chair and Board members.

8 CHAIR MARCUS: It's Milt, sorry. Hi.

9 MR. TRIEWEILER: Go ahead?

10 CHAIR MARCUS: No, go ahead.

11 MR. TRIEWEILER: Oh.

12 Chair and Board members, I'm Milt Trieweiler.  
13 I was born in Turlock. I live in Turlock. And we human  
14 beings think we're pretty clever; in many ways, we are.  
15 But what would you say about this: Here in California,  
16 we've had five years of drought, we're going into our  
17 sixth year of drought in the Central Valley. This year a  
18 report came out on October 27th from the California  
19 Department of Food and Agriculture. It tells us that  
20 since June 1st of last year another 77,000 acres of  
21 almonds, new almond orchards, were planted. If we don't  
22 have enough water for existing crops, is it wise to be  
23 planting more acres of almonds?

24 This resource of water is needed for everyone  
25 in the Valley. It's needed by the people living in the

1 cities. It's needed by the farmers living on the farms.

2 And it's needed by the fish that live in the rivers.

3 We, the people, have caused this problem by  
4 producing greenhouse gases that are causing our planet to  
5 warm up. We cause this warming when we burn coal, oil,  
6 and natural gas to produce electricity, heat, and run our  
7 transportation. The kind of farms we really need here in  
8 the Central Valley, the foothills of the Central Valley,  
9 are solar farms and wind farms.

10 It's needed by our people living in -- we  
11 cause this warming - okay -- the kind of farms we really  
12 need -- sorry.

13 The NASA weather model shows us that our Valley  
14 droughts will only get progressively worse and worse. If  
15 you go on NASA's website, you can see there, it's  
16 demonstrated many times over and over, these droughts are  
17 going to get worse and worse.

18 If we human beings really are clever, let's  
19 begin planning for the future today by acknowledging that  
20 global warming is a reality.

21 In Turlock, I save -- I use less water in  
22 one year than many of the people in Turlock use in half a  
23 month, two weeks.

24 Thank you.

25 CHAIR MARCUS: Thank you.

1 (Applause.)

2 CHAIR MARCUS: Ms. Covello or Covello.

3 Tell me how to pronounce it.

4 MS. COVELLO: Hi. Thank you. My name is  
5 Kelly Covello, president of the Almond Alliance of  
6 California. Our association represents about 80 percent  
7 of the industry based on volume.

8 And I just want to start out with a statistic.  
9 We do contribute 104,000 jobs to the State of California  
10 directly, 97,000 of which are right here in the Central  
11 Valley where we're hit hardest with unemployment, which  
12 you've heard a lot about those statistics today.

13 One thing I want to -- I've had to cut down my  
14 comments quite a bit. But we've heard a lot today about  
15 the need to balance the different priorities. And you  
16 guys have a large task in front of you, and we understand  
17 that. But I think in order to balance those priorities  
18 you have to have accurate information to truly assess the  
19 costs and the benefits of the decisions that you're  
20 making. And there's been several speakers today that are  
21 highlighting some of the economic flaws that they've  
22 found. And I wanted to just bring to light two different  
23 scenarios in Appendix G of the SED, looking at the ag  
24 impact directly related to almonds.

25 So, Appendix G, there is analysis that says

1 anywhere between 151 acres to 529 acres to 1,588 acres  
2 could be lost under the three different alternatives.  
3 What exactly this means is really vague. Is it lost  
4 production, lost productivity, or something else? But  
5 let's assume that these figures are correct, even though  
6 they have been disputed by different water districts and  
7 different counties. With capital investments of \$25,000  
8 per acre for almonds to get their orchards in place and  
9 then go without income for several years, if you look at  
10 the number 3 Alternative of 1588 acres, that's an impact  
11 of \$39,000,000 alone to the almond industry.  
12 Additionally, there will be lost net income, land values,  
13 and other economic multipliers in play.

14 Another statistic in the SED, Appendix G, is  
15 the acreage assessments for MID and TID. They're based  
16 on 2009, and 1991 to 2011 data respectfully. Given the  
17 increase in acres of tree crops over the last ten years,  
18 more current data should be used. We estimate that  
19 there's a difference of 1350 acres alone in those two  
20 irrigation districts.

21 And then, lastly, the report does not provide  
22 the data used to determine the crop price. So, if you  
23 are looking at crop prices from the 1990s, then you are  
24 grossly underestimating the value of our crop.

25 So, given these concerns just with two

1 irrigation districts, one crop, I think that there's a  
2 lot of review that needs to happen on the economic  
3 analysis so that you guys can make well informed  
4 decisions.

5 Thank you.

6 CHAIR MARCUS: Thank you. Thanks for the  
7 specifics.

8 (Applause.)

9 CHAIR MARCUS: Ms. Irvin. Okay. We'll get to  
10 the next panel, which is Stanislaus and Tuolumne Rivers  
11 Groundwater Basin Association, fifteen minutes.

12 And I do still need a speaker card for Panel  
13 Number 5, which is the Stanislaus Regional Water  
14 Authority and City of Turlock. We do need your card so  
15 we know your speaker's name so we can make them name  
16 plates, which is important for the webcast.

17 MR. WONG: Good afternoon, State Board members.  
18 Welcome to Modesto.

19 CHAIR MARCUS: Thank you.

20 MR. WONG: My name is William Wong. I'm the  
21 Engineering Division Manager for the City of Modesto.  
22 But, here, I'm speaking on behalf of the seven member  
23 agencies of the Stanislaus and Tuolumne Rivers  
24 Groundwater Basin Association, who collectively manage  
25 the groundwater in the Modesto Subbasin.

1           MR. MOORE: Well, welcome, Mr. Wong. We got to  
2 share a webinar together on recycled water in California,  
3 and we shared that information with our counterparts from  
4 Israel together. So, it's nice to see you in person.

5           MR. WONG: Nice to see you, too.

6           So, you know I'm all about water. And so,  
7 hopefully -- it's tough to be after lunch, I know that  
8 the speakers have some time, I'll try and be brief and  
9 informative in this presentation.

10           A little about the Modesto Subbasin. It's part  
11 of the larger San Joaquin Valley Groundwater Basin. It  
12 is bounded by the Stanislaus River to the north, the San  
13 Joaquin River to the west, the Tuolumne River to the  
14 south, and the foothills to the east. It encompasses  
15 approximately 250,000 acres, or 400 square miles, and  
16 approximately 70 percent of this area is irrigated.

17           The Modesto Subbasin is also the water supply  
18 for safe and reliable drinking water supply for over a  
19 quarter million people in the cities of Modesto,  
20 Riverbank, Oakdale, Waterford, and also serves several  
21 disadvantaged communities.

22           The storage capacity of the Modesto Subbasin is  
23 about 6.5 million acre-feet to a depth of 300 feet; and  
24 14 million acre-feet to a depth of 1,000 feet. Per the  
25 USGS Geological -- U.S. Geological Service groundwater

1 model, about 62 percent of gain in groundwater comes from  
2 deep percolation and precipitation.

3           The Modesto Subbasin has not been identified by  
4 the DWR, or Department of Water Resources, to be in a  
5 condition of critical overdraft. And the reason is  
6 because the -- it can be attributed to the past and  
7 current practices by the local agencies participating in  
8 the Stanislaus and Tuolumne River Groundwater Basin  
9 Association, or STRGBA.

10           The STRGBA was formed in 1994 under an MOU to  
11 promote the coordination of groundwater management  
12 practice and planning activities in the Modesto Subbasin.  
13 It consists of seven local agencies, including two large  
14 irrigation districts, covering 70 percent of the total  
15 area within the subbasin and located entirely within  
16 Stanislaus County. Member agencies, agencies that  
17 overlie the Modesto Subbasin include the cities of  
18 Modesto, Oakdale, Riverbank, Waterford, Oakdale  
19 Irrigation District, the Modesto Irrigation District, and  
20 Stanislaus County.

21           We are the envy of water managers up and down  
22 the State of California with respect to groundwater  
23 management due to our collaborative efforts in working  
24 amongst each other, and state and federal agencies.

25           For over 20 years, the technical staff from

1 each participating agency has met monthly. Our  
2 organization is predicated on relationships and strong  
3 technical focus and the belief in cooperation and  
4 coordination.

5           The STRGBA provides information and guidance  
6 for the management and protection and enhancement of  
7 groundwater quality and quantity in the Modesto Subbasin.

8           The 2005 Integrated Regional Groundwater  
9 Management Plan identified the total water demand in the  
10 basin to be approximately 600,000 acre-feet per year, of  
11 which surface water provides 70 percent of that water, or  
12 about 400,000 acre-feet. Total recharge is 310,000  
13 acre-feet, thus a positive change in the groundwater  
14 storage annually.

15           The STRGBA has been very active since its  
16 formation, completing a 2005 Integrated Regional  
17 Groundwater Management Plan. It has studied recharge  
18 characterizations in our area and has worked extensively  
19 with the USGS to complete hydrologic characterization of  
20 the subbasin, assessing susceptibility to contamination.  
21 It completed a USGS MerStan groundwater model, which  
22 studied the groundwater between the Merced River and the  
23 Stanislaus River; and has completed a well field  
24 optimization study project.

25           The STRGBA also is recognized as a California

1 Statewide Groundwater Elevation Monitoring entity, or  
2 CASGEM, with the DWR.

3 In regards to the Sustainable Groundwater  
4 Management Act, or SGMA, the STRGBA was organized and  
5 enacted 20 years before SGMA was enacted. The STRGBA  
6 believes that locals are best equipped to solve local  
7 problems, and has spent a tremendous amount of time on  
8 education and outreach. Member agencies believe and stay  
9 in the course.

10 The STRGBA will be the groundwater  
11 sustainability agency, or GSA, for the Modesto Subbasin,  
12 and its formation package is being sent to the DWR later  
13 on next year in February.

14 In stark contrast to SGMA and the direction  
15 provided by the governor, it appears that the SED is  
16 specifically designed to retraite the Bay perils that the  
17 governor, SGMA, and the local water managers have been  
18 and are trying to combat.

19 The STRGBA has concerns with the SED. The SED  
20 does not adequately address impacts to municipal water  
21 providers and significantly jeopardizes their ability to  
22 continue to provide safe and reliable drinking water to  
23 over a quarter million residents that depend on this  
24 level of service.

25 The SED is entirely focused on the subbasin's

1 major water rights holders and simply fails to  
2 acknowledge STRGBA's future role as a subbasin's GSA.

3           The SED also did not utilize acceptable tools  
4 for its groundwater analysis and deliberately and  
5 adversely interferes with the STRGBA's mission to  
6 implement SGMA.

7           The SED also ignores the existing groundwater  
8 relationship and management activities, like the STRGBA,  
9 that exist at a local level.

10           So, in conclusion, we in the STRGBA have been  
11 managing groundwater in the Modesto basin for over  
12 20 years and is poised to become the exclusive GSA for  
13 the Modesto Subbasin. We believe in local control, and  
14 SGMA was predicated on the premise that locals know best.  
15 We won't violate SGMA. And the SED ignores the existing  
16 groundwater relationship and management entities that  
17 exist at a local level. We won't accept -- the impacts  
18 of SGMA are speculative and the impacts won't be  
19 significant and unavoidable. This conclusion is one that  
20 will lead to the absolute demise of our region.

21           Based on our studies, groundwater and surface  
22 water are intimately connected. Taking 290,000 acre-feet  
23 of surface water from the plan area will have a  
24 devastating effect on our area.

25           The STRGBA encourages the State Water Resources

1 Control Board to go back to the drawing board, to work  
2 with local groundwater management entities, such as the  
3 STRGBA, that have been doing good things for decades. We  
4 are proof positive that through transparent collaboration  
5 durable solutions to regional issues are possible.

6 Thank you.

7 (Applause.)

8 MR. DAVIDS: I don't necessarily have any  
9 direct comments. Will gave the presentation, so I think  
10 we're open to questions that anybody from the board may  
11 have this afternoon.

12 CHAIR MARCUS: Please.

13 MS. D'ADAMO: Well, I'll just say, or ask you,  
14 you say that the SED interferes with your ability as the  
15 presumed GSA to meet SGMA. Can you explain or quantify,  
16 better yet, if you could quantify, how you think it would  
17 interfere with your ability to meet SGMA.

18 MR. DAVIDS: Yeah. Maybe I'll take a stab at  
19 that. I think from a practical perspective, you know,  
20 the number that Will threw out with respect to the net  
21 change in groundwater on an annual basis with the Modesto  
22 Subbasin is about 310,000 acre-feet annually. So, when  
23 we look at taking, you know, a couple hundred thousand  
24 acre-feet of surface water out of the basin, our ability  
25 to sustainably manage our groundwater resources into the

1 future is in significant jeopardy.

2           And I give, as the chairman for the STRGBA, I  
3 have the fortune of giving different talks up and down  
4 the State of California. And I'm in an envious spot, you  
5 know. And I think that we are a need basin, as I call  
6 it. We're bounded by rivers on three different sides.  
7 We have the Stanislaus River to the north, the San  
8 Joaquin River on the east side, and the Tuolumne to the  
9 south, and the foothills to the east, and we're all  
10 located in one county. So, our job with respect to SGMA  
11 is relatively easy in comparison to other groundwater  
12 basins within the State of California.

13           But I think it really is a discussion with  
14 respect to opportunity. And, so, our opportunity to  
15 continue to sustainably manage our groundwater system  
16 with the loss of resources is a significant concern of  
17 our members.

18           MS. D'ADAMO: Okay. Thank you.

19           CHAIR MARCUS: Thank you very much. I know  
20 we'll be wanting to spend more time with you, but in the  
21 interest of how many people are here, I'm going to hold  
22 my questions for a subsequent time that we can talk to  
23 you. But thank you for all the good work you've done and  
24 for being a model.

25           MR. WONG: Thank you.

1 MR. DAVIDS: Thank you.

2 CHAIR MARCUS: All right. I'm going to call 15  
3 more people. And I've given the cards of people who  
4 weren't here when I called them to Ms. Landau. And if  
5 you wonder whether you were called right at the beginning  
6 before we went to this panel, just check with her and  
7 we'll take your card.

8 I just want people who were here early and were  
9 in the queue, if they've come back in, I can put you in  
10 as opposed to you waiting to the very end to find out  
11 that you had been called.

12 Wrangler Wheeler, which is the best name of the  
13 day so far. Dave Wheeler, Todd Heinrich, Dave Soiseth,  
14 Jeff Fairbanks, Carlen Jupe, Chris -- I'm sorry, Guptill?  
15 Guptill. Kent Mitchell, Marisol O'Connor, Janet Neal,  
16 Steve Endsley -- Dr. Steve Endsley, Jeralyn Moran,  
17 Camille King, Bob Triebisch, Elaine Gorman.

18 So, I'll go with Wrangler Wheeler. Oh, we're  
19 glad to have you here. Followed by David Wheeler,  
20 followed by Todd Heinrich.

21 Mr. Wheeler, thank you for joining us.

22 MR. WHEELER: All right. Hello. I would like  
23 to start off with thanking you for the opportunity for  
24 the public to voice our opinion on this critical subject.

25 My name is Wrangler Wheeler, and I'm a fifth-

1 generation agriculturalist, and my family has been  
2 farming here in Modesto for 102 years. I'm a proud  
3 Future Farmer of America, which is what brings me here  
4 today. This decision will directly affect my future far  
5 more than imaginable.

6 Our creed starts with the words, "I believe in  
7 the future of agriculture." And water is the vital  
8 lifeline of our industry.

9 By taking away a part of this vital lifeline,  
10 you are directly taking a part of my future and for  
11 generations to come. I urge you to take into  
12 consideration the many lives, jobs, and futures you will  
13 be affecting.

14 Thank you for your time.

15 CHAIR MARCUS: Thank you for yours.

16 (Applause.)

17 CHAIR MARCUS: David Wheeler, followed by  
18 Mr. Heinrich, followed by Mr. Soiseth.

19 MR. WHEELER: Yeah, that was my son.

20 CHAIR MARCUS: Yeah, you should be proud.

21 (Applause.)

22 CHAIR MARCUS: You should be proud of him. You  
23 should be proud of yourself for naming him.

24 MR. WHEELER: Thank you. Don't tell his mom  
25 that.

1 Thank you for coming to Modesto.  
2 Twenty-five years ago, we were here looking for flood  
3 control. And sometime in the future, the weather will  
4 change and we'll cycle the other way and we'll be doing  
5 the same thing. Right now, the drought is on our plate.

6 My family has farmed here for over 100 years,  
7 and what you are proposing is the biggest threat to my  
8 family passing the farm to the fifth generation of our  
9 family.

10 I urge you to look at other proposals, such as  
11 more storage, rather than just dumping the water. It  
12 seems to me if you want more water for a fish flow, you  
13 should save it with more storage during wet years.

14 CHAIR MARCUS: Uh-huh.

15 MR. WHEELER: It's like a bank account.

16 CHAIR MARCUS: Right.

17 MR. WHEELER: You build it up and you spend it  
18 during the dry times.

19 CHAIR MARCUS: Right.

20 MR. WHEELER: The more water stored, the more  
21 water available for all of us.

22 So please go back to the drawing board and  
23 start over. Thank you.

24 CHAIR MARCUS: Thank you.

25 (Applause.)

1 CHAIR MARCUS: Mr. Heinrich. Mr. Soiseth.  
2 Mr. Fairbanks.

3 MR. FAIRBANKS: Good afternoon, Chair Marcus,  
4 Board members.

5 Can I use their time since they weren't here?

6 CHAIR MARCUS: You have a whole roomful of  
7 people who want to get home for dinner.

8 MR. FAIRBANKS: If I could, before we start, I  
9 would like to acknowledge these future farmers who are  
10 here.

11 CHAIR MARCUS: Yeah, thank you for doing that.

12 MR. FAIRBANKS: The FFA. Can you guys please  
13 stand up, the students?

14 (Applause.)

15 MR. FAIRBANKS: And there were a lot more  
16 earlier.

17 I would like to speak to you as a person who's  
18 enjoyed the outdoors in Central California since the 70s.

19 As a Modesto native, I remember fishing down at  
20 the Tuolumne River just downstream from Ninth Street.

21 And before sunrise, we would wade out in knee-high deep  
22 water and we'd fish into the sand with our hands trying  
23 to find clams as fish (sic) for catfish. And we'd always  
24 catch catfish all the time. We'd also catch striped bass  
25 just below Dennett Dam up here.

1           Twenty years later, after that, I wanted to  
2 take my sons down to the river so they could experience  
3 the same local fishing that I enjoyed when I was their  
4 age, and that was about ten years ago. Sadly, the clams  
5 were very hard to find and the fishing holes were long  
6 gone, the striped bass were no longer around. However,  
7 the water level, as far as my perception was, and the  
8 temperature had always been the same. That didn't  
9 change. And, yet, so from spending a lifetime of fishing  
10 the local rivers, I submit to you that the water flows  
11 and temperatures seemed pretty much the same back then,  
12 back when the fisheries were more abundant, back when I,  
13 as a kid, would witness hundreds of salmon passing over  
14 Dennett Dam in Modesto.

15           So, what is it that changed that the fish and  
16 salmon populations declined over the years without a  
17 significant change in water flows and temperature? I  
18 submit to you that there are many other non-flow measures  
19 that could be considered for this.

20           One impact was pollution on these waters. When  
21 I last fished the Stanislaus River, Goodwin Dam, I filled  
22 my backpack with trash. And in that trash, there was  
23 several empty worm cartons. And these were in a  
24 restricted area of fishing using live bait. Those who  
25 fish legally, probably didn't -- about using bait,

1 probably did not care about poaching salmon. And I  
2 suggest we have more law enforcement with our Fish and  
3 Game to help control the pollution and the poaching  
4 that's going along on our rivers.

5           What about the toxic chemicals from the waste  
6 from meth labs that has been dumped into our rivers?

7           What about the impact of not controlling the  
8 water hyacinth?

9           Could the Division of Boating and Waterways use  
10 more crews to manage the aquatic weed control program?

11           Could we use inmate work crews to help with  
12 that kind of work?

13           When I was fishing for strippers in the Oakdale  
14 Rec. Area, I couldn't catch any strippers, and I was  
15 using a three-inch imitation minnow, but I caught lots of  
16 carp and sucker fish. And even the sucker fish were  
17 eating these imitation -- that looked like an imitation  
18 juvenile salmon. So, I'm wondering what studies have  
19 been done as far as these predatory fish.

20           And, in closing, I would just like to know what  
21 impact the -- would be the increased flows of water  
22 temperatures have on recreational swimmers and those  
23 taking a float trip. What is the scientific projection  
24 for the increased accidental drownings at the cost of  
25 hoping to increase in salmon?

1           I support -- I submit to you that you please  
2 consider the numerous non-flow measures that would be  
3 taken in order to reach a win/win reasonable solution to  
4 this problem.

5           Thank you.

6           CHAIR MARCUS: Thank you. Thank you for  
7 recognizing the youth as well.

8           Carlen Jupe. There you go. Followed by Chris  
9 Guptill, followed by Mr. Mitchell.

10          MR. JUPE: Hi. I'm Carlen Jupe. I'm a retired  
11 computer programmer, Bay Area transplant, and that's the  
12 first thing I'm going to talk about.

13          An economic impact that your staff may not have  
14 considered --

15          CHAIR MARCUS: Uh-huh.

16          MR. JUPE: -- is that if the drinking water  
17 supply, residential use water supply out here in the  
18 Central Valley collapses, you won't have thousands and  
19 thousands of people going over the Altamont Pass to jobs  
20 in the Bay Area because they won't want to live out here.  
21 And the ones with jobs in the Bay Area have enough money  
22 to vote with their feet like happened in Calaveras  
23 County, as was recounted earlier today.

24          There's an additional economic impact that's  
25 not been talked about. I will talk about a different

1 impact, on which I've gained some insight from my years  
2 as Secretary/Treasurer in the State California Beekeepers  
3 Association. I am not speaking for the Association; this  
4 is my observation.

5           It's been said that about a third of the food  
6 that we eat is pollinated by bees. Okay. Follow me on  
7 this.

8           CHAIR MARCUS: Okay.

9           MR. JUPE: About two-thirds of your standard  
10 commercial beekeeper's income comes from pollinating  
11 almonds. Now, we're getting a little warmer.

12           If the almond industry is severely impacted, so  
13 will be the commercial beekeeper industry and, therefore,  
14 so will the pollination of all those other crops. Bottom  
15 line, your food prices are going to go up.

16           And even if you're able to get -- and that  
17 presumes that you'll even be able to get food from around  
18 here. A lot of it will have to be imported from places  
19 that don't have the FTA looking over their shoulder.

20           Thank you.

21           (Applause.)

22           CHAIR MARCUS: Thank you. Interesting.

23           Chris Guptill -- tell me if I've got that  
24 wrong. Mr. Mitchell, and then Ms. O'Connor.

25           MR. GUPTILL: Hello.

1 CHAIR MARCUS: Hi.

2 MR. GUPTILL: Thanks for being here in Modesto  
3 and for letting us come to talk to you.

4 CHAIR MARCUS: Thanks for having us.

5 MR. GUPTILL: My name is Chris Guptill. I'm a  
6 teacher and organizer of community clean-up efforts along  
7 the river. I organized the Operation 9-2-99. But I'm  
8 here to talk to you guys about the non-flow issues that  
9 we can work on to try to improve the river habitat.

10 One of the things that we have experienced in  
11 Modesto, especially the urban areas of the river, that  
12 particularly is harmful to have, which that is the blight  
13 that occurs. We have illegal dumping. We have objects  
14 in the river that don't belong there. We have abuse of  
15 this natural habitat.

16 CHAIR MARCUS: Uh-huh.

17 MR. GUPTILL: And so one of the things that I  
18 think that is important for you guys to focus on in  
19 talking to the municipalities and the districts that are  
20 ultimately responsible for the river is that what can we  
21 do to try to reduce that.

22 We've done some local-level things. Our  
23 clean-up effort has been going on for two-and-a-half  
24 years. We've had 1,500 volunteers come out. We've  
25 removed 175 tons of material from the river and adjacent

1 parks. We've removed 750 shopping carts, 750 tires. And  
2 we have an ongoing effort that is a volunteer basis that  
3 we're very proud of. But we need to do more of that.

4           The river has become a dumping ground in a lot  
5 of places. And turning the corner on years of negligent  
6 is going to take more effort by everybody to do that. We  
7 try to work with lots of different groups. And anybody  
8 who is willing to do that, is encouraged to help. And  
9 lots of people have supported us. But that's one area I  
10 think we need to continue to look at specifically.

11           I'm not an expert in in-channel streambed  
12 improvements or riparian floodplain, but some of the  
13 things that I think we could look at and that I'm  
14 familiar with in my experience in the last three years on  
15 the river, in addition to blight are things like the  
16 issue with invasive species. We have water hyacinth  
17 problems on our river, on the Tuolumne, anywhere from 10  
18 to 15 significant blockages over the past couple of  
19 years. Myself and a few other volunteers have worked on  
20 clearing all of those blockages, and we currently have a  
21 river that's open to navigation, has a natural habitat.  
22 But when those blockages show up, they really alter the  
23 system and it doesn't work the way it's supposed to.

24           So, just briefly, the other two things that we  
25 really need to focus on in addition to that is getting

1 rid of Dennett Dam. It serves no purpose. It's a  
2 killer. It does not belong. It should have been removed  
3 a long time ago.

4 And, finally, the last thing is our river is  
5 not open to recreation to the public very well. And I  
6 think that public access to the river is a big help in  
7 keeping it clean for volunteer groups. We currently have  
8 one river access point in all of Modesto, and that's in  
9 the Allegiant Park area where there isn't even a  
10 functioning boat ramp, restroom, or safe parking. There  
11 are only two other places on the entire river where you  
12 have parking, a restroom, and a boat launch to access it,  
13 and they're each 20 and 40 minutes east of town, at Fox  
14 Grove and up at Basso Bridge.

15 And, so, we'd like to see an improved access to  
16 our river. We would like to help keep it clean. We have  
17 volunteers who care very much about it. And these are  
18 not flow issues. These are non-flow issues that we can  
19 work with people on. And I encourage you to encourage  
20 the districts and the municipalities to do everything  
21 they can in those respects to try to save on flow and try  
22 to get the river in a state that people can be proud of.

23 CHAIR MARCUS: Thank you. Thank you for your  
24 work.

25 (Applause.)

1 MR. MOORE: I have a question.

2 CHAIR MARCUS: Oh, sure. Sorry. Come on back.

3 MR. MOORE: Sir, thank you for illuminating all  
4 of your stewardship. You're a true friend of the  
5 Tuolumne River.

6 What's the name of your organization?

7 MR. GUPTILL: It's called Operation 9-2-99.  
8 That's for the Ninth Street Ridge and the 99 Freeway,  
9 which run through Modesto. They're about a mile apart.

10 MR. MOORE: Thank you. And these are profound  
11 comments you've made about the public and its access to  
12 the river and its relationship to the river. And you and  
13 your volunteers are on the front lines of reclaiming  
14 rivers for Californians and improving our relationships  
15 with rivers.

16 Thank you.

17 MR. GUPTILL: Thank you.

18 CHAIR MARCUS: Mr. Mitchell, followed by Ms.  
19 O'Connor, followed by Ms. Neal.

20 MR. MITCHELL: Thank you for being here today.

21 CHAIR MARCUS: Uh-huh.

22 MR. MITCHELL: I'm here to speak for the river.  
23 I am the vice chair of the Yokuts, the local Sierra Club  
24 organization.

25 And the fish versus farmers, what a false

1 choice that is. We can't think of rivers in  
2 utilitarian -- for utilitarian purposes. Water is life.  
3 It sustains us. We need to care for our rivers so that  
4 they continue to sustain us.

5 Our local rivers are degraded and hurting.  
6 There's just not enough water. There's too many demands,  
7 too many diversions, too many almond trees.

8 I do sympathize greatly with those hurt by the  
9 drought, the lack of water, and the farmers who have  
10 spoken. It's a tough decision you face. And we all face  
11 together. Just the current path we're on, though, is not  
12 sustainable, due partly to poor decision-making in the  
13 past.

14 I think the best course of action is to follow  
15 dispassionate science and the experts and do what's best  
16 to heal our rivers. And from that, develop a  
17 comprehensive and balanced solution going forward, and  
18 plan for the future accordingly involving sacrifice from  
19 all sides.

20 Merry Christmas to all and a joyous holiday  
21 season.

22 (Applause.)

23 CHAIR MARCUS: Thank you.

24 Ms. O'Connor, followed by Ms. Neal, followed by  
25 Dr. Endsley.

1 MS. O'CONNOR: Hello. My name is Marisol  
2 O'Connor and I live here in Modesto. I have lived here  
3 in the Central Valley for three years, and I am proud to  
4 call Stanislaus County my home where I will raise my  
5 daughter.

6 Now, albeit, I do not have the great breath of  
7 knowledge, history, and investment as my fellow neighbors  
8 do about water here in our Central Valley, but I see  
9 this, and this city of good neighbors has -- that we have  
10 an opportunity right now, via this Board, a  
11 once-in-a-lifetime opportunity to leave for our children  
12 and their children a thriving river here in our Central  
13 Valley, three thriving rivers.

14 We, as a community, not just Central Valley,  
15 not just Stanislaus, not just Modesto, not just this  
16 water basin, but all of California and this world, we  
17 have a responsibility to protect and steward our rivers,  
18 specifically these three rivers. And that is why I want  
19 to thank this Board for their plan and their efforts and  
20 their work about how to protect the Bay-Delta and its  
21 tributaries.

22 Thank you.

23 (Applause.)

24 CHAIR MARCUS: Thank you.

25 Ms. Neal. Dr. Endsley. There we go.

1 Followed by Ms. Moran and Ms. King.

2 MR. ENDSLEY: Thank you. Thank you for coming  
3 and welcoming you with the hundredth welcome.

4 CHAIR MARCUS: Appreciate that.

5 MR. ENDSLEY: Winston Churchill once said that,  
6 "Americans eventually always do the right thing after  
7 exhaustively (sic) attempting to figure out all other  
8 possible alternatives."

9 CHAIR MARCUS: I love that quote.

10 MR. ENDSLEY: And that's what this reminds me  
11 of today. It's been very educational. We should have  
12 all the students in the whole Valley here. It's  
13 wonderful.

14 And I'll just tell you my observation. There's  
15 three groups that need water. The cities, the farms, and  
16 the fish and the environmentalists. But they all need  
17 water. And what you're doing now is just fighting over a  
18 dwindling supply of water where there's not enough for  
19 everybody.

20 I've been here 40 years. I'm a retired  
21 cardiologist. I started a group called "Valley Heart."  
22 God forbid you ever get trouble with a heart around here,  
23 go to Valley Heart. I'll personally meet you there and  
24 help you through it if you need it, although I'm retired,  
25 so I won't be too effective.

1           Everybody needs more water. More water is what  
2 you need. Okay. Good. So, what did our forefathers do  
3 from one-hundred thirty, to fifty years ago? They looked  
4 up in the hills and they saw snowpack and rain, so what  
5 did they do? They put in dams. And the dams provide  
6 water down the tributaries and into the rivers. That's  
7 where we get the water. So, if we need water again,  
8 maybe we should do more dams. That's where we got the  
9 water initially.

10           And what do dams do? They do three things.  
11 Number 1, they collect more water, which we all need.  
12 Number 2, they store the water. There's a double. And,  
13 thirdly, they could have hydroelectric power out of dams.  
14 Hydroelectric power, of course, electricity, is both  
15 clean and renewable. So, I like things where you make  
16 one investment and get two things back.

17           So, I would just say, lastly, if you get state  
18 money, instead of saying, "Damn Jerry Brown," you call it  
19 "The Jerry Brown Dam," and instead of saying, "Damn  
20 Donald Trump," you say, "The Donald Trump Dam."

21           Thank you.

22           (Applause.)

23           CHAIR MARCUS: You have a marketing career in  
24 retirement as well.

25           Ms. Moran. Great. Followed by Ms. King,

1 followed by Mr. Triebsch.

2 MS. MORAN: Thanks. Hi. My name is Jeralyn  
3 Moran. I'm here to say I really appreciate the thankless  
4 work that you've been doing, and I am really concerned  
5 about the bigger picture of our environment. And if we  
6 can step back a minute and see, that the backdrop we're  
7 working against is our continued human population growth  
8 and a limited supply of water. And, so, we have to try  
9 to divvy out water to all stakeholders, which means an  
10 ever-growing human population but also all other forms of  
11 life here.

12 And this is just indicative as something even  
13 bigger. Our entire planet is going to be getting shorter  
14 and shorter in resources. Water is what we're talking  
15 about.

16 So, I just am here to thank you for the work  
17 that you're doing and encourage you to continue reaching  
18 out to everybody. We can do this. We can come to an  
19 answer. Everybody can have a piece, but nobody can have  
20 everything they want. So, let's try to look at it that  
21 way.

22 Thanks.

23 (Applause.)

24 CHAIR MARCUS: Thank you for that.

25 Ms. King, followed by Mr. Triebsch, followed by

1 Ms. Gorman.

2 MS. KING: Pull it down for short people.

3 CHAIR MARCUS: I know. I always hate it. I  
4 have to pull it down, too. I hate that.

5 MS. KING: I'm just also to thank you for being  
6 willing to take on a very thankless job. I don't know  
7 how -- you couldn't possibly be paid enough to do what  
8 you do. As we --

9 CHAIR MARCUS: It's easier than being a farmer  
10 or fish, trust me.

11 MS. KING: Easier than a fish, yeah, for sure.

12 You know, we'll all here to share this  
13 overpromised and, you know, overextended resource, which  
14 is the water in our state. And it's us, it's the people,  
15 and the farmers and the fish, and the other little  
16 animals and the birds.

17 And, as was discussed earlier, you know, with  
18 the current population of 39 million, and somebody today  
19 thinks that we're heading towards 50 in California, we  
20 really need to figure out a way to cooperate and -- with  
21 each other on all fronts, or we truly will be heading for  
22 a water wars it seems to me.

23 So, thank you. You know, this is a strategic  
24 and a truly long-term solution that we're looking for,  
25 and thank you for being willing to sort of hang in there

1 and look to the future because it's just critical for all  
2 of us. You know, we're in this together, all of us.

3 And Bill Maher has left, but I also would  
4 second his idea of maybe having some hearing at the Bay  
5 Area, you know, where the Bay Area people, you know, the  
6 San Francisco and the BAWSCA people drink Tuolumne water  
7 and are certainly affected by the quality of the Bay and  
8 recreate on the river. So, I would encourage you if you  
9 have the time and can fit it into your schedule, you  
10 might -- you know, that would be a different perspective  
11 that you've been getting from all the hearings you've  
12 been doing down here in the Valley.

13 Okay. Thanks.

14 CHAIR MARCUS: Thank you. I think we've  
15 figured that Sacramento is not that far away from the Bay  
16 Area, but we've heard that suggestion from a number of  
17 folks.

18 Thank you.

19 (Applause.)

20 CHAIR MARCUS: Mr. Triebsch, followed by  
21 Ms. Gorman.

22 MR. TRIEBSCHE: I've served on many boards  
23 myself, and I thank you for your attendance here.

24 CHAIR MARCUS: It's helpful.

25 MR. TRIEBSCHE: I've been practicing law in

1 Turlock for over 40 years, representing agricultural  
2 interests in a variety of ones, and including one  
3 hatchery.

4 I agree with our environmental speakers here  
5 today. Our population is growing and we need more  
6 food production. Food production obviously requires  
7 water. And I encourage you to try to find the  
8 compromise. And I'm going to close with some  
9 suggestions for you.

10 CHAIR MARCUS: Great.

11 MR. TRIEBSCH: In the 70s, when I was  
12 practicing here, we went through a severe drought. And  
13 the farmers fallowed half of their land in those days,  
14 doubled up the water, and grew half a crop.

15 Changes in regulatory requirements and consumer  
16 demands have changed what the farmers are growing. It's  
17 driven by market.

18 All right. So, in this case, we have more  
19 almonds being planted. Those almonds are all being  
20 put -- all the new almonds are being put in on drip  
21 systems or micro-irrigation, which uses less water than  
22 flood irrigation of the old style or row crop irrigation.

23 Now, in Turlock, this is just one community,  
24 for example, we have five cheese plants, two powder  
25 plants, one ice cream plant, one Blue Diamond almond

1 processing center. And that's just to name a few of the  
2 businesses.

3 Collectively, these businesses represent  
4 thousands of workers in transportation, at the facility,  
5 farmworkers; all depend upon an adequate supply of water.  
6 Two, three, sometimes four generations have been involved  
7 in building these operations.

8 It takes over \$3 million to build a dairy  
9 facility today, and that's just for the facility not the  
10 land that is used; \$8,000 to \$10,000 to develop an acre  
11 of almonds.

12 And almost all of these operations have debt to  
13 service. And the lenders who have provided this debt  
14 have based upon their historical production of crops to  
15 service these loans. If they cannot grow their crops,  
16 their farms are actually at risk because of debt service.

17 The Board's staff is incorrect in assuming that  
18 there will be a reallocation by market forces of the  
19 water supply. Cows cannot go without feed or water for a  
20 year, trees and vines can't go without water for a year.

21 One of your speakers here also talked about the  
22 recharge of groundwater in the basin. That's going to  
23 affect a lot of domestic wells. I attended one hearing  
24 here in the Valley already where a lot of people who  
25 spoke, who are at the lower end of the economic strata,

1 living on ground well waters that have 25-, 75-foot wells  
2 that are driving up. You have the Public Trust Doctrine.  
3 You've already heard many speakers about the taking.

4           There was one additional item that I would  
5 point out in that regard. I'm not a litigator. I  
6 wouldn't be involved in --

7           CHAIR MARCUS: Then you should probably wrap.

8           MR. TRIEBSCHE: Okay.

9           CHAIR MARCUS: Make the point, but just do it  
10 quickly.

11           MR. TRIEBSCHE: The dams were not built by the  
12 state. They were built by the users. And when you store  
13 your water in there, that is a taking.

14           CHAIR MARCUS: You know, there's one thing I  
15 just want to mention.

16           MR. TRIEBSCHE: Sure.

17           CHAIR MARCUS: I'm not arguing with you. One  
18 of the things -- one of my colleagues in a job a long  
19 time ago talked about how we all view the world depending  
20 upon when we think history begins.

21           But there has been a provision in California  
22 law for a very, very long time that when you build a dam,  
23 particularly on a river, you have to keep fish in good  
24 condition below the dam. And people seem to forget that  
25 part of the deal. And I think people don't realize that.

1 But it's been around a long time, too. So, just so you  
2 know.

3 MR. TRIEBSCH: If I may, I have just some  
4 points for a proposed solution.

5 CHAIR MARCUS: All right. Go very quickly.

6 MR. TRIEBSCH: Number 1, expand the season and  
7 limits on predators. Number 2, increase the size and  
8 number of hatcheries. Number 3, my hatchery clients  
9 suggest that instead of the Fish and Wildlife releasing  
10 fingerlings at six inches, grow them to one pound where  
11 they're more likely to be less consumed by the predators.  
12 Improve stream habitat and eliminate hot spots. The  
13 functional flow model, I think you're familiar with --

14 CHAIR MARCUS: Yes.

15 MR. TRIEBSCH: -- consider the direct quote out  
16 of Peter Moyle's study on the Putah Creek that very  
17 little water is necessary to support this functional flow  
18 model, which is a good compromise between agriculture and  
19 the fishing industry.

20 Thank you very much.

21 CHAIR MARCUS: Thank you very much.

22 (Applause.)

23 Ms. Gorman.

24 MS. GORMAN: Good afternoon. My name is Elaine  
25 Gorman, I'm a retired teacher with Modesto city schools.

1           In the 1980s, I was trained in the Modesto  
2 Irrigation District Program "Every Drop Counts." Anybody  
3 else remember that?

4           My students learned about water conservation,  
5 historic and current uses of the Tuolumne River, and  
6 basic science facts, such as the water cycle, riparian  
7 chemistry, and the dynamics of a watershed.

8           I have also taken hundreds of students and  
9 their parents on field trips to La Grange, where they had  
10 the opportunity to learn from Turlock Irrigation District  
11 and California Fish and Wildlife biologists about the  
12 lifecycle of Chinook salmon.

13           The kids were always amazed as they watched the  
14 salmon as they swam under the La Grange Bridge. They  
15 couldn't believe that fish could be that large. We would  
16 often see bald eagles. We would learn about the  
17 importance of salmon in the entire riparian ecosystem.

18           Volunteers with Stanislaus Wildlife Care Center  
19 would bring local wildlife and share information about  
20 the animals that rely on the Tuolumne River. A visit to  
21 La Grange Museum would inform students about the cultural  
22 uses of the river from local Native Americans to the gold  
23 miners, and, more recently, our current system of dams,  
24 irrigation canals, reservoirs, and drinking water  
25 facilities. These educational activities are some of the

1 highlights of my teaching career, and I hope that they  
2 helped my students become good stewards of the  
3 environment.

4           On October 9th, the Modesto Bee ran an article  
5 titled, *"Alarming Findings on San Francisco Bay Health."*  
6 Scientists from the Bay Institute and UC Davis explained  
7 how the San Francisco Bay and estuary have been damaged  
8 and is being choked by the lack of fresh water due to  
9 water diversions and recent drought. The effects of this  
10 are not just felt by salmon, but on all organisms in the  
11 ecosystem, and these affects are far ranging.

12           I have hiked, canoed, swam, inner-tubed, and  
13 backpacked along most of the Tuolumne River. I have  
14 drank fresh water Lyell Glacier. I have marveled at  
15 Waterwheel Falls in the Grand Canyon of the Tuolumne. I  
16 have watered my garden and fruit trees with water from  
17 the Tuolumne River. In most places in Modesto, I can  
18 open a tap and drink water from the Tuolumne River.

19           The Tuolumne River is very precious to me. The  
20 health of the river and the downstream estuary is  
21 important to the entire State of California. I hope that  
22 all of us living in this part of California can find some  
23 common ground to include an increase in the flows and the  
24 health of our local rivers.

25           Thank you.

1 (Applause.)

2 CHAIR MARCUS: Thank you very much.

3 Thank you. We'll now move to our next panel,  
4 which will be Turlock Irrigation District, who has asked  
5 for 45 minutes. We have been giving the irrigation  
6 districts long periods of time.

7 Here we are. The "*Great Irrigators*." What  
8 was -- the "*Irrigationists*"? What is the name of the  
9 video you guys use?

10 MR. BOYD, "*Irrigationists*," yup.

11 CHAIR MARCUS: I love that.

12 MR. BOYD: They were the first.

13 CHAIR MARCUS: They were the first.

14 MR. BOYD: Chair Marcus, members of the Board,  
15 thank you so much for coming to the Valley. I know  
16 you've had kind of a long road trip the last few days,  
17 and we appreciate you coming down and listening to all of  
18 this.

19 CHAIR MARCUS: Thank you, it's helpful.

20 MR. BOYD: My name is Steve Boyd. I'm with the  
21 Turlock Irrigation District. In the interest of time,  
22 we're going to try to be brief today. We've also been  
23 following each day of the presentations, and right up  
24 through yesterday morning, we modified our presentation  
25 with the aim of --

1 MR. LLOYD: Sir, can you speak into your  
2 microphone?

3 CHAIR MARCUS: Oh, yeah. You got to get it  
4 just closer to you.

5 MR. BOYD: Thank you.

6 MR. LLOYD: Just reposition it.

7 CHAIR MARCUS: Yeah, reposition it. You don't  
8 have to -- you know, just --

9 MR. BOYD: Is that better?

10 CHAIR MARCUS: Maybe a little higher. You're  
11 tall.

12 MR. BOYD: How is that?

13 CHAIR MARCUS: I keep announcing to everybody  
14 what their height is as if they don't know, but --

15 MR. BOYD: As long as we don't go to weight  
16 this afternoon, I'll be fine.

17 CHAIR MARCUS: No, I would never go there.

18 MR. BOYD: All right. In the interest of  
19 introducing new topics today, right up until yesterday  
20 morning, we were modifying our presentation based on many  
21 of the things that you've already heard.

22 CHAIR MARCUS: Thank you.

23 MR. BOYD: It would be a little bit of  
24 redundancy, but then also, hopefully, there will be some  
25 new material that you'll find of interest.

1           The SED is obviously a long and very complex  
2 document filled with a lot of analysis. And I think you  
3 can expect that same level of analysis in our written  
4 documents. We're going to take a slightly different  
5 approach today.

6           Through the hearings you've held in the Valley,  
7 you've heard a lot of talk about impacts and what the  
8 impacts mean. And we're also going to stay away from  
9 that as part of today's presentation. But, rest assured,  
10 there will be a lot of talk of impacts in our written  
11 comments as well.

12           So, what do we want to do today? We want to  
13 talk briefly about who we are and who TID represents. We  
14 want to provide an example of what the SED says and what  
15 it might mean. And then, more importantly, what the SED  
16 doesn't say and what that might mean. And then, finally,  
17 perhaps a better way forward than the path we're on.

18           So, with that, I would like to introduce Casey  
19 Hasamoto. He has served as a general manager of the  
20 Turlock Irrigation District since 2011. And under the  
21 policy setting guidance of the District's elected board,  
22 he directs the day-to-day operations of the District's  
23 extensive irrigation, water storage, and delivery system,  
24 as well as the generation, transmission, and distribution  
25 of electricity within TID's 662 square-mile service area.

1 Mr. Hasamoto has been with TID for over 31 years.

2 MR. HASAMOTO: Good morning, Chair Marcus --

3 CHAIR MARCUS: Good morning.

4 MR. HASAMOTO: -- and members of the Board.

5 I would like to begin with a brief history of  
6 the Turlock Irrigation District.

7 TID was founded in 1887. We were the first  
8 irrigation district in the State of California. We first  
9 provided irrigation water in the year 1900. And, in  
10 1923, we partnered with the Modesto Irrigation District  
11 and built the original Don Pedro Dam and Reservoir.

12 In ensuing years, we realized that a larger  
13 reservoir was needed to withstand the dry years our  
14 region experiences from time to time. And, so, in 1970,  
15 the Turlock Irrigation District and Modesto Irrigation  
16 District partnered with the City and County of San  
17 Francisco and built the New Don Pedro project.

18 Today, TID provides surface water to 145,000  
19 irrigated acres. We have approximately 5,000 family  
20 farms. And the average parcel size in our district is  
21 less than 30 acres.

22 We have practiced a successful conjunctive  
23 water management plan over the past hundred years, and we  
24 continue to make improvements to our irrigation system,  
25 including all 250 miles of canals in our system.

1           And, as the operating entity of the New Don  
2 Pedro project, we pride ourselves as good stewards of the  
3 river and have spent a significant amount of money and  
4 time on the Tuolumne River to closely monitor the river's  
5 fishery and riparian habitat.

6           And, so with that backgrounds about TID, I  
7 would like to mention that, although we have many  
8 concerns with the SED, I will just only be discussing  
9 three of the impacts that the SED will have on TID and  
10 the region.

11           The first impact is reservoir impacts.  
12 Appendix F describes the concept of minimum  
13 end-of-September storage. And for the Don Pedro  
14 Reservoir, this requirement is 800,000 acre-feet. This  
15 reduces the effective storage of the reservoir from its  
16 existing 1.7 million acre-feet down to 900,000 acre-feet.  
17 In addition, the SED has a maximum allowable draw from  
18 storage that limits what can be available for diversion  
19 over the irrigation season.

20           So, then, assuming on March 1st that we have a  
21 full reservoir, which in this case is half of 900,000  
22 or -- actually, we had a full reservoir and we have to  
23 limit our diversion over the irrigation season to  
24 50 percent of the available storage, in this case, it  
25 would be half of 900,000 or 450,000 acre-feet. So, you

1 could see the usable storage in Don Pedro is essentially  
2 reduced to 450,000 acre-feet. And, as a comparison, the  
3 original Don Pedro Reservoir was slightly under 300,000  
4 acre-feet.

5           So, this proposal merely takes us back in time  
6 in terms of water supply to the point we were prior to  
7 the construction of the New Don Pedro project. And, as I  
8 mentioned earlier, Don Pedro was built specifically to  
9 allow our community to survive a prolonged drought,  
10 similar to the one that we're currently in. But the SED  
11 would result in a loss of a local infrastructure  
12 investment and severely limit the amount of water our  
13 community, farmers, and drinking-water customers can use.

14           Moving on to impacts to groundwater. With  
15 passage of the Sustainable Groundwater Management Act,  
16 TID took a leadership role and began work immediately to  
17 develop and pursue a plan to comply with this new law.  
18 TID is part of the Turlock Subbasin, and it's only one of  
19 two groundwater basins in the San Joaquin Valley that is  
20 currently not designated as critically overdrafted.

21           We knew that there would be challenges ahead of  
22 us. We have 11 disadvantaged communities within the TID  
23 service area that rely solely on groundwater as their  
24 source of drinking water. We also have 13 other entities  
25 that we needed to work with within our subbasin. But I'm

1 pleased to say that, along with our 13 other partners, we  
2 recently formed the West Turlock Subbasin Groundwater  
3 Sustainability Agency, and anticipate holding our public  
4 hearing and submit our paperwork to the Department of  
5 Water Resources within the July 2017 deadline for GSA  
6 formation.

7           However, the SED preferred alternative would  
8 substantially deplete groundwater supplies and interfere  
9 substantially with groundwater recharge, that is  
10 described in the document as significant and unavoidable.  
11 This will make it nearly impossible for the new GSA to  
12 manage our groundwater sustainably.

13           And then, finally, impacts to drinking water.  
14 We recently completed an agreement with the City of  
15 Turlock and the City of Ceres to supply Tuolumne River  
16 water as another source of their drinking water. The  
17 anticipated benefit is that the cities would gain an  
18 alternate water supply and that the TID service area  
19 would see a recovery of groundwater as the cities cut  
20 back on their reliance on the groundwater.

21           There is a provision in our agreement where, if  
22 there's a reduction in the amount of water delivered to  
23 our growers, then the water we provide to the cities  
24 would be equally reduced.

25           An analysis we performed indicates that if the

1 SED were in place in the 1990 to 2015 time period, TID  
2 would only be able to deliver the full amount of water to  
3 the cities in only 5 out of those 26 years.

4 And, so, at this point, I'm going to stop and  
5 say that you will hear from the Stanislaus Regional Water  
6 Authority and the City of Turlock later today about the  
7 impacts that the SED will have on their plans for a  
8 regional water treatment plant.

9 MR. BOYD: Thank you, Casey.

10 So, that's a bit of a snapshot of where we came  
11 from and who we are today. If you'll indulge me now,  
12 we're going to cover a little bit of which you heard a  
13 fair amount yesterday related to what the SED says, and  
14 then we'll really get to the meat of the presentation in  
15 just a moment.

16 So, one of the first challenges you're going to  
17 face as you look at the job before you is, does the SED,  
18 as written, meet its own goals and objectives? And if  
19 you look at SED, in the Executive Summary, Pages 9 and  
20 10, staff states there are eight goals the SED hopes to  
21 accomplish. We'll certainly be addressing each of those  
22 goals and some analysis related to those in writing, but,  
23 today, let's just pick Number 1 and move down the list.

24 Project Goal Number 1 states, "Maintain inflow  
25 conditions from the San Joaquin River Watershed

1 sufficient to support and maintain natural production of  
2 viable native fish populations migrating through the  
3 Delta." And, so, let's take a look at that goal and what  
4 the SED says about it.

5 If you look at Page 19-34, and I can't quite  
6 read the monitor.

7 CHAIR MARCUS: The SalSim chart.

8 MR. BOYD: The SalSim chart.

9 CHAIR MARCUS: We're going to have to do a  
10 whole thing on the 1,100 fish and what it means and  
11 doesn't mean, but, please, go ahead.

12 MR. BOYD: Absolutely. And we're going to do a  
13 little of that for you in just a few minutes.

14 CHAIR MARCUS: Everybody is doing it for us.  
15 It's just not the way our staff describes it. But I know  
16 it's irresistible so go ahead.

17 MR. BOYD: Absolutely.

18 CHAIR MARCUS: If I were advocate, I'd be  
19 there, too, I'm sure.

20 MR. BOYD: Well, thank you.

21 CHAIR MARCUS: I've been there in the past.

22 MR. BOYD: Well, the staff document cites about  
23 96 times why SalSim is important to the SED and how it  
24 supports the goal, and it cites about 10 times wherein  
25 staff tries to sort of move away from that analysis.

1 But, for today, let's assume that it's correct.

2           And if you were to look at the top, left  
3 column, certainly you folks know this better than  
4 anybody, so this is more for the audience, top, left  
5 column is what's considered base case or modeling the  
6 current conditions for all three tributaries.

7           And you if you move all the way to the right,  
8 the model shows there would be about 11,373 fish in all  
9 three tributaries according to the model.

10           SalSim then models the 40 percent unimpaired  
11 flow case. And if you move all the way to the right, it  
12 shows about 12,476 salmon in all three tributaries.

13           And, again, so simple math, that's where  
14 everybody has come up with the 1,103 new fish in the  
15 river.

16           Again, assuming everything in the SED is  
17 correct, the impact stated show that there'll be about  
18 23,421 acres of irrigated farmland that come under -- out  
19 of production and a loss of about 450 jobs and a net  
20 impact of \$64 million, assuming that's correct.

21           I'm going to read one more item that is in the  
22 SED before we move to sort of some balancing questions  
23 you're going to be faced with. The Executive Summary,  
24 Page 1 says, "The Bay-Delta is therefore at the center of  
25 the ongoing statewide debate about how to reasonably

1 protect fish and wildlife uses of water without causing  
2 unreasonable negative impacts on water supply for  
3 agriculture, drinking water, hydropower, and other  
4 competing beneficial uses. The southern Delta is at the  
5 center of a more local debate on how to reasonably  
6 protect irrigated agriculture."

7           So, absent new information in the SED, you have  
8 a very large task and a very tough one. From my  
9 perspective, some balancing questions you might have to  
10 face moving forward is, do those 1,100 new fish equal a  
11 viable population? Of the fish modeled in the baseline,  
12 or in the 40 percent unimpaired flow model, how many of  
13 those are actually native fish returning to the system?  
14 You have to consider if the SED considers predation both  
15 through the tributary and through the Delta. And then,  
16 finally, is this a reasonable protection of both fish and  
17 wildlife without causing unreasonable impacts?

18           So, that's what the SED says today.

19           What doesn't it say? One thing you heard  
20 yesterday in Merced from the Merced River is the ongoing  
21 relicensing on the Merced project. Since 2010, the  
22 Turlock and Modesto Irrigation Districts have been  
23 working through the FERC relicensing process for the New  
24 Don Pedro project. In 2012, we completed over 30 very  
25 complex scientific studies using state-of-the-art science

1 and methodologies. We also built a suite of models aimed  
2 at everything from understanding reservoir operations,  
3 reservoir temperature, river temperature, floodplain  
4 analysis, and steelhead and fall-run Chinook salmon  
5 populations.

6           The State Board staff was involved in the  
7 meetings for the development of those studies. They  
8 helped shaped the outcome, and they helped shape the  
9 development of those models.

10           There's, I believe, one single mention of all  
11 of that work in all 3,500 pages of the SED, yet none of  
12 the analysis is used to inform the product.

13           So, today, what we would like to do is show you  
14 one example of the analysis that was done in 2012 and one  
15 of those studies, and why that's important to the  
16 decision you have before you.

17           So, at this point, I'm going to ask Dr. Noah  
18 Hume, who has been working on the Tuolumne for over  
19 15 years, to run through a bit of an analysis for you.

20           Dr. Hume holds a PhD in Civil and Environmental  
21 Engineering from UC Berkeley and has over 25 years'  
22 experience aquatic sciences and engineering, spanning  
23 ecology, water quality, water supply and treatment. Dr.  
24 Hume's areas of expertise include engineering, water  
25 quality management, wetlands ecology, limnology, and

1 fisheries' biology. He has led and participated in the  
2 design and implementation of riverine, wetland, title  
3 habitat restoration projects from Oregon to Newport Bay,  
4 California, as well as title habitat restoration projects  
5 in the Sacramento-San Joaquin River Delta.

6           And I'll just say, besides his work on the  
7 Tuolumne, I believe he's uniquely qualified because of  
8 his work on the Delta as it relates to the Bay-Delta  
9 Plan.

10           So, with that --

11           MR. HUME: Good afternoon, Chair Marcus.  
12 Thanks for having me here.

13           I came before you in 2010 as part of the Delta  
14 Flow Criteria hearings. And I haven't met the two new  
15 folks here before now. But I wanted to come through and  
16 describe -- work through to sort of an interesting  
17 approach to comparable salmon benefits to the SED  
18 proposals.

19           So, the next slide.

20           So, as Steve mentioned, TID and MID have been  
21 operating the Don Pedro project together for quite a long  
22 time, since the 1970s, under the new dam configuration  
23 and a series of licensed articles prescribed fishery  
24 flows for spawning and rearing. There was a cooperative  
25 study program which has been re-implemented under

1 different requirements over the years between the  
2 districts and DFG, and DFW rather, and Fish and Wildlife  
3 Services, as well as long-term monitoring of salmon  
4 escapement, and, in the last 15 years or so, a rotary  
5 screw trap monitoring at the river mouth looking at  
6 salmon production.

7           So, the point to be made here is that it's  
8 maybe hard to find, but they actually are there, if you  
9 go to the FERC website, they're all there, numerous  
10 studies have been filed with both FERC and CALFED looking  
11 at factors that affect Chinook salmon production, and  
12 these could include factors affecting spawning,  
13 escapement, both monitoring as well as modeling studies,  
14 habitat studies looking at the impacts of dams, such as  
15 sediment blockage and sediment downstream, and  
16 restoration to improve gravel quality and quantity,  
17 studies on Redd superimposition, so density-dependent  
18 impacts on salmon spawning, food availability, fish  
19 health studies, water temperature modeling, water  
20 temperature monitoring, water quality. A range of  
21 factors.

22           So, next slide.

23           So, one of the ones I want to drill down into  
24 here is predation. So DFG first identified predation as  
25 a major factor affecting salmon production in the late

1 '80s and TID initiated a range of studies from habitat  
2 characterizations to direct predator sampling and  
3 predation rate estimates at that time. This is just an  
4 example of one mining pit filling project done, it was  
5 called Special Run Pool 9, in the lower river, on the  
6 bottom left here. And, then, on the right, is some  
7 rotary screw trap passage data used to create a small  
8 survival index during the spring.

9           And the point being that there's quite a bit of  
10 degraded habitat in the lower river, a lot of very deep  
11 and slack water pools that would not respond functionally  
12 restored flows. They're just simply too slow.

13           And the screw trap passage data shows a  
14 relationship here, a fairly weak relationship on the  
15 order of R-squared of like .15 to .18. It's there. You  
16 know, higher flows do improve survival, and this is part  
17 of the predation signal.

18           So, next slide.

19           MS. D'ADAMO: Could you go back for a moment?

20           MR. HUME: Yeah.

21           MS. D'ADAMO: Just to give an idea of the  
22 scale, of the size, of these pits, because, you know,  
23 maybe some of us are visualizing a river of a certain  
24 size and there's these indentations --

25           MR. HUME: Some of them are --

1 MS. D'ADAMO: Some of them are quite large.

2 MR. HUME: -- upwards of 30 feet and more deep.

3 You can't see the bottom kind of thing. Some of them are  
4 upwards of a-mile-and-a-half long and maybe 15 feet,  
5 something on that order. So, it was really great,  
6 because we actually participated in the habitat  
7 restoration plan for the river to be able to fill all  
8 these areas, but there just isn't enough gravel in the  
9 state to do that. They just -- you just couldn't find  
10 enough.

11 So, there can be improvements. There can be  
12 sort of reconstruction of spawning riffles and sort of  
13 lowering of floodplain areas. There's ways of improving  
14 the functionality of the system. But I don't think  
15 there's any way back to the pre-human river.

16 CHAIR MARCUS: Right. Yeah. That gets back to  
17 that "When history begins," kind of a --

18 MR. HUME: Right.

19 CHAIR MARCUS: -- of an issue. So, the  
20 question is what is the art of the --

21 MR. HUME: Yeah.

22 CHAIR MARCUS: -- possible?

23 We've heard a lot about predation, and people  
24 toss it off. There's a fight that happens about striped  
25 bass --

1 MR. HUME: Uh-huh.

2 CHAIR MARCUS: -- the bass wars, and we  
3 actually have spent a lot of time talking to Peter Moyle  
4 and other folks. And it's more complex than there's  
5 taking out striped bass. They're a longer-lived fish,  
6 and they're only one of many, another predator  
7 concomitant group.

8 But the issue of hot spots has been something  
9 that has intrigued a lot of us and which we've gotten  
10 some traction on, which is, if you know you have an  
11 obvious hot spot, maybe not all of them, you could give  
12 the fish a fairer fight if you dealt with those hot  
13 spots. And that the issue is to try to increase the good  
14 habitat that gives natives a fighting chance. Flow is a  
15 piece of it, but it's just one piece of it. And then you  
16 suppress the habitat that favors the predator where  
17 they're just sitting at a McDonald's knowing that  
18 everybody is going to go by.

19 And, so, I really -- hopefully, you're going to  
20 get to that. I would really be interested in your sense  
21 of the art of what's possible that could help. It's all  
22 about making it a fairer fight.

23 MR. HUME: Yes.

24 CHAIR MARCUS: Not all one or the other.

25 MR. HUME: Now, first, go back to that first

1 slide.

2 This was one of those examples where they  
3 filled a pit.

4 Now, the monitoring on the backside of that did  
5 not show fantastic effects because there were pools only  
6 a half a mile upstream and downstream of the --

7 CHAIR MARCUS: So it's just in the middle.  
8 Okay.

9 MR. HUME: So it was kind of like, "Oh, we  
10 really wanted some really got data to show that it  
11 worked." And it's pretty inconclusive on the other end.  
12 Certainly, the survival through that reach was good. But  
13 if you were to do a broader look, there's predators that  
14 are roaming up and down the river from the nearby pools.

15 So, it is true that if you improve, I think  
16 what you were saying, improve habitat incrementally, you  
17 can improve the overall survival down the river.

18 I'm going to be focusing on kind of more a  
19 predator removal idea here.

20 So, we have this sort of weak flow-survival  
21 relationship.

22 So, let's move to the next slide.

23 And the districts had sampled predators back as  
24 far as 1990, through electrofishing. This 1998/2000  
25 period was that, these pit filling projects. And, then,

1 most recently, for the relicensing study, again, predator  
2 abundance sampling, predation sampling. This is sort of  
3 a gory picture here of lavage, or stomach content  
4 sampling, here on the right-hand side. And then predator  
5 movement tracking through radio telemetry and acoustic  
6 tracking in these pool habitats and other locations, as  
7 well as sort of the more passive rotary screw trap  
8 monitorings that are upstream and downstream of these  
9 mining pits. And you can see what happens. And,  
10 essentially, very high predation losses in the lower  
11 river --

12           And, then, next slide.

13           -- in the San Joaquin itself.

14           So, as we go down into the lower San Joaquin,  
15 you know, past Vernalis and into the south Delta,  
16 survival is severely impacted by predation. And the  
17 VAMP, Vernalis Adaptive Management Protocol, proceedings  
18 was attempting to get sort of a flow survival  
19 relationship there. And it all started off very starry  
20 eyed in the 1990s. And, then, somewhere in the middle  
21 2000s, the studies kind of fell apart. And, essentially,  
22 we were getting zero -- zero percent survival no matter  
23 what flows were being accomplished.

24           And the studies -- so, basically, low survival  
25 at almost every flow. And the studies were then reverted

1 to acoustic tracking and looking for predator hot spots  
2 and things like that. And they found them.

3 And these, again, are in slack water habitats,  
4 very big channel cross-section areas that will not  
5 necessarily respond to the fish energetics just by  
6 throwing down high flows. I think predation losses will  
7 continue to occur in these habitats.

8 So, let's move now to the ocean. And you see  
9 these well used relationships between lagged outflow and  
10 escapement. So, what is the flow in the year that the  
11 smolts were reared, and then what are the escapement two  
12 or three years later.

13 And I actually did this analysis for Fish and  
14 Wildlife back in the early 2000s. And the San Joaquin  
15 Basin is kind of unique amongst all of the tributaries of  
16 the Central Valley in that this relationship shows up.  
17 It actually doesn't show up in the Sac side.

18 But the snow-melt signals and the high rainfall  
19 amounts that usually accompany El Niño and other  
20 conditions, so good ocean conditions, high outflow events  
21 produces this fantastic relationship. But you see here  
22 in 2006, or 2004 to '05 time frame, it kind of broke  
23 down. And there was an ocean fishery collapse. This has  
24 happened -- we don't have really good records back into  
25 the, you know, 1800s or 1900s, but this happens with some

1 regularity. There are changes in ocean circulation.

2           The fear is that this is happening, of course,  
3 more and more as we're getting sort of global climate  
4 change dread on our minds that we may not really know  
5 what's going on in the ocean in comparison to prior  
6 years.

7           So, let's look at the next slide.

8           This is that same time-lagged relationship of  
9 escapement and flow. And, on the left panel, you see it  
10 actually explains about -- the spring outflow explains  
11 about 50 percent of the variation in annual escapement  
12 over the 1970 to 2012 period here shown. But if you  
13 shorten the analysis period to 1997, of course,  
14 incorporating that ocean fishery collapse, that  
15 correlation drops down to .3. And if you were to shorten  
16 it still, let's say, to 2005 to 2016, I'm pretty much  
17 guessing you would get a much worse relationship.

18           So, the point here is, although there is a flow  
19 signal, it's not a great flow signal and it seems to be  
20 deteriorating in time. And, in all of this time, the  
21 tributary flows have remained largely the same. So,  
22 there's something else going on than what's coming out of  
23 the rimmed dams around the Central Valley.

24           So, next slide.

25           During the relicensing, we were working with

1 the district on study plans and we basically didn't want  
2 to touch the hot potato of Delta survival and ocean  
3 survival. And we said let's focus on just what's  
4 happening in the river. And, so, we set about to look at  
5 factors affecting in-river production, in-river survival.  
6 And the factors that we focused on were spawning  
7 conditions, so gravel quality, the Redd superimposition  
8 spawning habitat availability; seasonal water  
9 temperatures, you know, at the shoulder season, sort of  
10 early fall and late spring; as well as the in-river  
11 rearing. So, again, predation conditions and flow and  
12 temperature effects on rearing and emigrating fish.

13           Next slide.

14           We did this information review pretty  
15 comprehensively favoring in-basin research over out of  
16 basin. And then we also reviewed a series of population  
17 models that had been developed previously for the larger  
18 San Joaquin Basin, as well as the Tuolumne River. So, a  
19 couple commissioned by the districts in the 90's. And  
20 then Oakridge National Labs model, as well as CDFG's  
21 population model, and then the most recent SalSim model  
22 that was used here in the SED. And a decision was made  
23 to use a little bit more of an explicit -- it was called  
24 "individual based model," which uses actual assessment of  
25 habitat availability and its effect on fish movement and

1 rearing through its life history. So, it's actually  
2 day-by-day habitat patch type of a model.

3 And, then, this was calibrated against seasonal  
4 RSD, rotary screw trap, passage, as well as for a longer-  
5 term validation.

6 I'm not going to describe all the parameters,  
7 but I just want to say there's a lot of parameters in  
8 there.

9 And their flow and temperature are explicitly  
10 included as is, again, habitat area, things like gravel  
11 quality, suitability based on velocity, depth,  
12 temperature, those sorts of things.

13 And let's get past that and basically just say,  
14 there is a model. It's on file. And we've got output  
15 from that model that we want to show you here today.

16 So, coming back to the predation question, some  
17 people today and probably at other hearings have talked  
18 about predator removal. I actually stumbled across a  
19 recent pilot program in the Mokelumne River where they've  
20 actually done a pilot predator removal and showed, I  
21 don't have the exact percentage, but I believe it's  
22 something like a boost of 50 percent smolt productively  
23 on the basis of a pretty modest predator removal program.  
24 And that's really what I'm going to be talking about  
25 here.

1           So, based on a predation study done by the  
2 districts, if we estimated around a 10,000 individuals  
3 between the two rotary screw trap monitoring locations  
4 and then a much smaller amount of striped bass, which, of  
5 course, are a little more voracious than the smallmouth  
6 and largemouth bass, but using the measured abundance and  
7 the measured consumption rates, if we took that  
8 population and we reduced it by either 10 or 15 percent,  
9 we could achieve upwards -- a savings of upwards of 13-,  
10 to 20,000 salmon smolts, which, in the scheme of the  
11 1,100 we were talking about, that would be a few hundred  
12 if you sort of thought about the survival out to the  
13 ocean and back. You might get back a comparable number  
14 as what we're talking about from the SED.

15           So, taking that as a key, we moved into our  
16 population model on the next slide. And, essentially,  
17 using that model as a tool, we assess that if we reduce  
18 predation by a modest 10 percent, we could see a boost in  
19 smolt production, and, thereby, a boost in salmon  
20 escapement, presumably, by as much as 60 percent.

21           Next slide.

22           So, this is -- we also have the ability because  
23 of some floodplain models developed by the districts and  
24 temperature models and a number of other models to look  
25 at some of the proposals under the SED. And we ran a

1 scenario including predation reduction, as well as, the  
2 40 percent unimpaired, the daily 40 percent unimpaired,  
3 not the monthly that was in the SED documentation, but a  
4 40 percent unimpaired scenario. And, essentially, a 10  
5 percent reduction in predation in this river-wide would  
6 essentially beat a 40 percent unimpaired flow.

7           It's not easy. It means you got to get out  
8 there every year, maybe every second year or something,  
9 doing a predator suppression. But it could achieve  
10 comparable benefits as the flow proposal.

11           So, next slide.

12           So, just in closing, just to say available  
13 Tuolumne River studies do not appear to have been  
14 reviewed by the SED preparers. Flow only explains salmon  
15 productivity partially. Non-flow factors, such as  
16 predation, appear largely unaffected by flow in many  
17 years, in particular, as we moved on into the Delta  
18 habitats. Temperature is another example of that. And  
19 then model predator reductions can potentially achieve  
20 comparable benefits.

21           Then one more slide, and I'm going to hope I  
22 don't go too far off the rails here.

23           Just sort of general comments in my quick  
24 reading of the document. The districts will be putting  
25 together formal comments. But, essentially, although it

1 looks like other factors are acknowledged in the SED  
2 document, they don't appear to be used to build the flow  
3 proposals, and they don't appear to have been used in the  
4 Delta -- the models which appear to be largely relying on  
5 flow only.

6           If we look at the factors shown relevant to  
7 salmon ecology, annual divergence from the Tuolumne have  
8 been unchanged on an annual basis since 1926, and  
9 seasonal discharges from the San Joaquin tributaries have  
10 pretty much remained stable or have increased in the  
11 recent decades. Whereas, Delta and ocean survival and  
12 returns have gone down. So, clearly, something other  
13 than tributary flows are affecting salmon returns.

14           Now, you might hear arguments that sort of a  
15 straw that broke the camel's back kind of thing, like  
16 there's multiple stressors, and if we relieve this  
17 stressor, it will help things. But I don't see a lot of  
18 evidentiary science. That sounds very attractive. I  
19 don't see a lot of evidentiary science that actually  
20 shows that, that you could sort of fight global warming  
21 impacts on the ocean productivity with tributary flow  
22 increases and that kind of thing.

23           And, then, lastly, on adaptive management, and  
24 this one, unfortunately, I scribbled down. And,  
25 basically, as you've seen here, the correlations are not

1 so good, sort of your typical environmental variability  
2 when you do a biological metric. If you're seeing  
3 40 percent R-squared or something, that's actually kind  
4 of gold star territory, you're happy that you can explain  
5 40 percent of something. But I'm concerned that the  
6 intrinsic variability of most plausible metrics that  
7 might be used for adaptive management, whether it's  
8 escapement or productivity or genetics or whatever it is,  
9 there is sort of an intrinsic variability to that.

10           And if we try to pretend that there's some  
11 adaptive management process that can sort out the right  
12 answer between 40 percent and 50 percent unimpaired flow,  
13 what would be the response in those metrics amongst the  
14 50 percent noise? How long is it going to take to  
15 discern whether that effect is real or just some change  
16 in ocean conditions? And I'm not really confident in the  
17 structuring of the adaptive implementation of framework,  
18 that it actually will inform future management decisions.  
19 I have a feeling it will be sort of a year-by-year  
20 arguments and then just chasing.

21           CHAIR MARCUS: Yeah. We don't want that.

22 We've heard that at a number of the hearings --

23           MR. HUME: Yeah.

24           CHAIR MARCUS: -- that we need to put more meat  
25 on the bones of what we mean --

1 MR. HUME: Right.

2 CHAIR MARCUS: -- without defining it, because  
3 the whole invitation is for people to come together and  
4 tell us --

5 MR. HUME: What they should be doing.

6 CHAIR MARCUS: -- what it ought to be. But  
7 there's a need, I think --

8 MR. HUME: Right.

9 CHAIR MARCUS: -- for more guidance on that.

10 MR. HUME: So I'm just a little concerned that  
11 that's -- that needs --

12 CHAIR MARCUS: Yeah. If it's fluffy, it  
13 doesn't work.

14 MR. HUME: Okay.

15 CHAIR MARCUS: Right. Sorry. That's a term of  
16 art.

17 MR. HUME: Back to Steve.

18 MR. BOYD: Thank you, Noah.

19 So, hopefully, that gives a taste of sort of  
20 the depth and breadth of the analysis we've done through  
21 the FERC process. That's available either through us or  
22 through the FERC website.

23 CHAIR MARCUS: And it helps me understand some  
24 of the disconnect I've been hearing where folks have  
25 talked about all the research being ignored or that there

1 have been all kinds of conversations but none with staff.  
2 And, so, I need to go back to where -- who's looking at  
3 what from our staff.

4 MR. BOYD: That would be very much appreciated.  
5 Thank you.

6 And, so with that sort of as the backdrop and  
7 thinking about moving forward, we can think about  
8 continuing the trajectory we're on with sort of the staff  
9 proposal and other agencies' proposals, or we can kind of  
10 talk about, to finish up, a change in that trajectory.  
11 And to talk about that change is Michael Franz, president  
12 of Franz Wholesale Nursery, a position he's held since  
13 1998. His second-family generation farm is located on  
14 the Tuolumne River in Hickman. Mr. Franz is active on  
15 local, statewide, and national boards ranging from the  
16 nursery industry to public power. He was elected to the  
17 TID Board of Directors in 2009. He also serves on the  
18 local farm bureau and on advisory boards to the  
19 Sustainable Conservation and Public Policy Institute of  
20 California. In his capacity as a TID Board Member, he  
21 has been deeply involved in stakeholder meetings related  
22 to the Water Resources Control Board's update of the  
23 Bay-Delta Water Quality Control Plan, as well as our FERC  
24 relicensing process of Don Pedro.

25 Michael.

1 MR. FRANZ: Thank you, Steve.

2 Thank you, Chair Marcus --

3 CHAIR MARCUS: Hi. Good to see you.

4 MR. FRANZ: -- each of you on the Board, good  
5 to see you in Modesto.

6 I'm also grateful for the community coming out  
7 today in such force. There is a lot of passion in the  
8 room. And I think a lot of legitimate fear. And, so,  
9 I'm grateful for each of you coming and hearing close at  
10 home to our matter at hand.

11 I have had the opportunity to get to know a  
12 couple of you and several decision-makers in the Brown  
13 Administration over the last few years as this proposal  
14 has moved along.

15 I am extremely grateful that several of you  
16 have given considerable amounts of time from your busy  
17 schedule to spend the day with me, come to my family's  
18 farm, and learn more about the Tuolumne River and our  
19 operations.

20 I recognize that you are required to seek the  
21 best path for both this community and the environment.  
22 Your role of balancing the competing beneficial uses is  
23 extremely challenging. But the Bay-Delta Plan as  
24 currently proposed perpetuates the broken adage of "Fish  
25 versus Farmer."

1           This region's entire economy is built around  
2 its historic use of surface water. We must maximize the  
3 ways to promote a healthy fishery while being as  
4 efficient as possible with the people's water, just like  
5 we do all over California today, both on farm and at  
6 home.

7           What we have attempted to do to show you in the  
8 amount of time allotted to TID today is to show you that  
9 there are alternatives other than just flow to improve  
10 the fishery. There is best available science that has  
11 been conducted on the Tuolumne River that predicts much  
12 better results with much less water than is required in  
13 this proposed Bay-Delta Plan in front of you today.

14           The plan you propose has extremely high human  
15 cost and predicts low returns for the environment. No  
16 one is arguing that the Tuolumne River is a highly  
17 modified complex ecosystem that needs improvement. And  
18 flow is an important component of a healthy ecosystem.  
19 However, history shows that regulated blocks of water for  
20 the environment have not delivered promised results.  
21 Communities have been devastated by lost water, but the  
22 native fisheries often continue to decline.

23           This proposed plan is heavy-handed and ignores  
24 the state's commitment to co-equal goals. The 2009 Delta  
25 Reform Act sets a lofty standard for future water

1 policy-making in the State of California, more reliable  
2 water supply, while protecting and enhancing ecosystems.  
3 This approach, unimpaired flow as a water management  
4 tool, erodes water supply for de minimis environmental  
5 gains. High cost and low returns.

6           Because of our historic reliable water supply  
7 in this region, we stand as a beacon of hope for a  
8 successful rollout of the Sustainable Groundwater  
9 Management Act. This proposal will limit our ability to  
10 reach the goals set forth in this landmark 2014 piece of  
11 legislation.

12           The plan states significant but unavoidable  
13 human impacts. And between the City and County of San  
14 Francisco and the communities around us here today, our  
15 respective economists predict billions of dollars of  
16 economic loss during dry periods and thousands of lost  
17 jobs. And those numbers are modeled at the 35 percent  
18 unimpaired flow as proposed in the 2012 version, and is  
19 only speaking for the Tuolumne River. All of this for a  
20 projected increase of 1,200 fish between the three  
21 rivers. This, in my opinion, is not balance.

22           I and others from this community have engaged  
23 in various conversations to offer up solutions outside of  
24 a flow only approach. These conversations include topics  
25 such as functional flows. This is an example of a 21st

1 Century approach that advocates for a much more holistic  
2 view of flows. I'll quote briefly from Dr. Cliff Dahm  
3 and others' work: "We propose a functional flow approach  
4 to managing heavily modified rivers. The approach  
5 focuses on retaining specific process-based components of  
6 the hydrograph rather than attempting to mimic the full  
7 natural flow regime. Simply stated, the design of a more  
8 natural flow regime without consideration of the  
9 implications for sediment transport in channel is likely  
10 to have a limited success in river management and  
11 restoration." End quote.

12 In other words, just turning the dial on flow  
13 in a highly-modified river system like we have will  
14 likely not produce the desired environmental benefit.

15 TID staff hates it when I go off of my notes,  
16 but I would love to have a conversation with you along  
17 the topic of Peter Moyle's "novel ecosystems," and how we  
18 are never going to be able to be successful until we  
19 first acknowledge what we're looking at today. We can't  
20 just turn back the clock --

21 CHAIR MARCUS: Right.

22 MR. FRANZ: -- and ignore the facts that humans  
23 and civilization have developed the rivers and we've  
24 developed the communities and we've built farms and  
25 factories, and we have to deal with what we have in front

1 of us if we're going to be successful.

2 CHAIR MARCUS: Right.

3 MR. FRANZ: Our conversations -- I'm back to  
4 the thought process of me putting up different  
5 conversations than just this proposal.

6 We talked about functional flows, and we've  
7 also had conversations that have included considerable  
8 emphasis on non-flow measures, such as predation and  
9 aquatic weed control and habitat restoration, integration  
10 of the latest technology into aging canal infrastructures  
11 to promote water efficiencies on farm.

12 And I'm thankful, Steve, for your time and  
13 attention. We spent a couple of hours out looking at  
14 TID's latest water conservation project. Significant  
15 investment by the farmer community around you in facility  
16 that integrates the latest technology and ways to make  
17 sure that we're being as efficient as possible with the  
18 people's water.

19 Build on the district track record of real  
20 monitoring, adaptive and dynamic managing, and  
21 transparent reporting.

22 Additional storage, both above and below  
23 ground, on- and off-stream, storm water capture and  
24 reuse, all options on the table.

25 Even though TID's diversions have not changed

1 since 1926, we must grow the pie in order to satisfy the  
2 competing demands for this finite resource.

3 I am convinced that this approach, when led by  
4 local stakeholders with passion and knowledge of the  
5 ecosystem, agriculture, and communities will deliver far  
6 more fish while protecting our livelihoods.

7 We cannot settle for a plan that only proposes  
8 to generate 1,200 more fish. Our community deserves  
9 better than this, and the State of California can do  
10 better than this. These rivers are cherished by the  
11 people of San Joaquin, Merced, and Stanislaus County. We  
12 recognize that healthy farms are fed by healthy rivers.  
13 We have ownership in the outcome.

14 I would like to close with just this one last  
15 comment. What is proposed in these over 3,500 pages will  
16 lead to years, possibly decades, of litigation if  
17 adopted. The last 30 to 40 years have been called the  
18 era of conflict in California water politics and policy.  
19 The same period of time has largely been a lose/lose for  
20 both the environment and for farms. Neither our  
21 communities nor the ecosystem can afford to repeat the  
22 failed policies of the past.

23 I urge you to consider the collaborative,  
24 comprehensive, science-based plan that TID and others  
25 around us are proposing.

1           Chair Marcus, here is the challenge, here is  
2 the heart of the matter, what's in this plan does not  
3 give us the room to work with the various agencies,  
4 primarily out of Sacramento and some from Washington, DC,  
5 to do the things needed to get the river what it needs  
6 and serves. Our respective agencies can fight each other  
7 for the foreseeable future, or we can do something  
8 meaningful for the river and do it soon. Let's roll up  
9 our sleeves and agree to a plan that follows both the  
10 letter and the spirit of the California Environmental  
11 Quality Act, one that minimizes impacts to humans and  
12 maximizes benefits to the fishery, one that truly  
13 considers alternatives and provides a path with low human  
14 cost and high environmental results.

15           Thank you for your time and, again, for coming  
16 to Modesto to hear from us.

17           CHAIR MARCUS: Thank you very, very much.

18           (Applause.)

19           CHAIR MARCUS: Thank you. Very good. Very  
20 good presentation. I know we'll have more chance,  
21 certainly, to talk, but I want to turn to my colleagues  
22 before we go back to -- thank you very much.

23           MR. BOYD: Thank you.

24           CHAIR MARCUS: Very well done.

25           You okay? Okay. I don't want to take

1 advantage.

2           Just to give you the next 15: Christine  
3 Gemperle, John Stokman, Joan Rutschow, Karla von Hungren,  
4 Arnold Thompson, Chuck Dienning, I think, Robert Marchy,  
5 Christina Postma, Jimi Netniss, Phil Osterli, David  
6 Quesenberry, Patricia Rowe, Ron Edwards, Danielle  
7 Veenstra, and Gordon Hollingsworth.

8           Again, if you want to go and see Ms. Landau and  
9 see if I had called you earlier, she has the cards that  
10 we called, if you think you were one of the very early  
11 arrivals.

12           Ms. Gemperle. Oh, good, there you are.

13           MS. GEMPERLE: Yup.

14           CHAIR MARCUS: Followed by Mr. Stokman,  
15 followed by Ms. Rutschow.

16           MS. GEMPERLE: My name is Christine Gemperle.  
17 I'm a California almond farmer and a former fisheries  
18 biologist.

19           First, I'd like you to understand the  
20 implications of the proposed increased flows. Increased  
21 flows are not going to fix your salmon issues, as we've  
22 heard. You're dealing with an ecosystem that is overrun  
23 with non-native species that are voracious predators.  
24 So, until you fix your food web problems, allowing more  
25 water to flow down those rivers isn't going to make much

1 of a difference.

2           Secondly, if you're looking at a species --  
3 you're looking at a species of fish that is at the  
4 southernmost end of its range, of its historical range.  
5 Given historical natural climate changes, you would  
6 probably find that salmon in this area have likely gone  
7 in and out of extinction several times without the aid of  
8 man.

9           With current climate change, we have all played  
10 a part in, all of us, these fish do not have a chance at  
11 this latitude until that is reversed. And if you think  
12 you need June flows, you don't. I've worked on this  
13 river. I know what it's like in June. You're just  
14 beating a dead horse, or, in this case, a dead fish.

15           And we can talk about fish more or we can talk  
16 about one other species that is impacted. I'm talking  
17 about the human impact. In this argument, the human  
18 component has been trivialized to the point of absurdity.  
19 The residents of the Central Valley are treated like  
20 second-class citizen, like we don't matter. And I'm here  
21 to tell you that we do matter, and remind you that we are  
22 living, breathing human beings with the same rights as  
23 people in Southern California and in the Bay Area.

24           I'm asking you to not only open your ears but  
25 open your minds and apply logic, common sense, and

1 honesty about what you're really after here.

2           Okay. We don't often say a lot, but I have a  
3 lot -- or have a lot of political clout because we're  
4 busy growing the food on your plate. You have to  
5 understand that the stars are aligned here in California.  
6 We have been blessed with the most fertile soil on the  
7 planet, a near perfect climate that enables us to produce  
8 food year-round, political and economic stability, an  
9 infrastructure that allows for the storage and movement  
10 of water, and regulation that ensures food safety. If  
11 farming is to take place anywhere on this planet, it  
12 should take place here because of our ability to produce  
13 so much variety and volume per unit of water.

14           And, contrary what a distorted media presents,  
15 Californians are very efficient users of water. We live  
16 to produce the most with the least amount of water in  
17 order to remain solvent. If you take this water away  
18 from us, you take away our ability to remain solvent. No  
19 water means no farming which means no food.

20           So where are we going -- where are you going to  
21 get your fresh, safe, local produce then? And if it  
22 comes to that, you might as well make another endangered  
23 species poster, one for the California farmer.

24           CHAIR MARCUS: Thank you.

25           (Applause.)

1 CHAIR MARCUS: Mr. Stokman, followed by  
2 Ms. Rutschow, followed by Ms. von Hungren.

3 MR. STOKMAN: Good afternoon.

4 A couple years ago Governor Brown and the  
5 people of California pushed for Proposition 1. And part  
6 of Proposition 1 was add more storage.

7 With your plan, we are going to be depleting  
8 the storage we already have. And I hope that you really  
9 listen to this group here, this last panel, and work with  
10 them. And there's other solutions than just 40 percent.

11 And as far as economic impact, I, 17 years ago,  
12 was having troubles paying my bills. I grew up on a  
13 dairy, knew a little bit about making hay, so I bought  
14 some equipment with borrowed money, we started a hay  
15 service, hired six people, six young men. And, in those  
16 17 years, they got married, had children, four of them  
17 became American citizens, and they are part of our  
18 community.

19 Because most of my clientele was on the west  
20 side of Stanislaus County, the feds cut back their water.  
21 It didn't make it viable for my clientele to grow  
22 fish -- to grow hay anymore, so, this year, we closed the  
23 doors on our operation, our hay-making operation. Four  
24 of my employees, who had families in those 17 years, are  
25 not going to have jobs with me. I'm going to keep two

1 because I still farm here west side of Modesto, but  
2 that's the devastation that this water creates for our  
3 economy. It's happening in my ranch already. So, and  
4 I'll feel real bad for them.

5 Thank you.

6 CHAIR MARCUS: Thank you, sir.

7 (Applause.)

8 CHAIR MARCUS: I'm going to take somebody out  
9 of order who was in the order. We have them numbered who  
10 we pulled out as a repeat but -- what?

11 Oh, hi, Ms. Rutschow, go ahead, and then we'll  
12 take Mr. Kauffman. Please, now that you're here.

13 MS. RUTSCHOW: Yes, thank you very much --

14 CHAIR MARCUS: Of course.

15 MS. RUTSCHOW: -- Felicia.

16 And my name is Joan Rutschow, and I'm a  
17 resident -- I was an -- I'm a resident of Stanislaus  
18 County for 50 years. And a retired teacher, 38 years in  
19 the classroom, Chatom Union School District.

20 And I would like to thank the panel and all the  
21 attendees for being here today. It's wonderful. Thank  
22 you for your time, your efforts, and all the work that  
23 you do.

24 CHAIR MARCUS: Thank all of you.

25 MS. RUTSCHOW: And everybody in the audience,

1 too, thank you.

2           These comments are going to -- are in response  
3 to the California Water Bill Measure from the House of  
4 Representatives in the Senate. And I -- the proposal, it  
5 proposes 27 desal projects, which is wonderful, 105  
6 recycling and reuse projects, 335 million for water  
7 storage funding, 558 million in overall funding, all  
8 worthy projects. And, especially, there's something for  
9 Flint, Michigan, with the water treatment plants there.  
10 So, I think this is a great project.

11           This new bill is going to fund more desal,  
12 efficiency, and recycling projects. It's 91-page  
13 California package. It's added to the Water  
14 Infrastructure Improvements for the Nation Act. It will  
15 support 11 billion in projects nationwide. However, the  
16 State Water Quality Control Resource Board (sic) is  
17 determined to confiscate half of our river water from  
18 February 1st to June 30th so water can be shipped south  
19 through two 40-foot diameter tubes.

20           These months, February and June, are the most  
21 important for reservoirs receiving melted snow. And this  
22 water grab could turn our communities into a dust bowl.  
23 Fifty percent of Sacramento River goes to the ocean  
24 already. Who will go extinct first, salmon or valley  
25 farmers?

1           Folks, this isn't about fish. It's a water  
2 grab, and to heck with our quality of life, economy,  
3 farms, and the water we have come to depend on. We must  
4 learn from history, we must fight to hold on to our  
5 water. We're giving more water and not getting anything  
6 back. We must save our water so we can help save our  
7 environment during a drought.

8           No amount of additional water will ever be  
9 shown as sufficient to restore Delta fish species smelt  
10 and salmon. The professional environmentalists' endgame  
11 is to bring an end to Central Valley agriculture by  
12 cutting off the water that Valley agriculture needs to  
13 feed the state, the nation, and the world; water that our  
14 entire economy depends on.

15           Regulatory agencies, that is, State Water  
16 Resources Control Board, U.S. Fish and Wildlife Service,  
17 U.S. Environmental Protection Agency, are the straw men  
18 being used to achieve that goal. Irrigation districts  
19 and agriculture reps have to be careful of entering into  
20 any agreements with these organizations that would  
21 jeopardize agriculture and irrigation districts'  
22 positions.

23           After spending millions of dollars and wasting  
24 millions of acre-feet of water on outflows and inflows,  
25 CALFED has never achieved any of its goals and objectives

1 or deadlines. Not one. CALFED couldn't prove that even  
2 one fish has been saved.

3           Hopefully, all of us have learned the lessons  
4 history has taught us over the last 20 years,  
5 bureaucrats, unelected and held unaccountable to the  
6 general population, are a danger to our way of life and  
7 our very survival.

8           Thank you for your time.

9           CHAIR MARCUS: Thank you.

10           (Applause.)

11           CHAIR MARCUS: Mr. Kauffman. Sorry about that.  
12 I know you've been here all day. But you're only -- you  
13 only ended up four behind where you would have been.  
14 Apologies.

15           MR. KAUFFMAN: My bill is in the mail. Oh, red  
16 light already.

17           CHAIR MARCUS: I didn't do that. Go ahead.

18           MR. KAUFFMAN: Thank you.

19           No, I wanted to listen to that good talk by  
20 TID's people.

21           CHAIR MARCUS: Yes, that was good.

22           MR. KAUFFMAN: That was an excellent  
23 presentation.

24           Thank you, Chairman, and members of the Board.

25           My name is Kevin Kauffman, and I'm a water

1 resources consultant for Eastside Water District, which  
2 relies on purchased surface water from the right holders  
3 on the Merced and the Tuolumne rivers.

4 Many speakers, I've heard many speakers say  
5 today, geez, we should pause, we should regroup, we  
6 should demand a statewide water plan, figure out what to  
7 do with the water rights, modify them if necessary, and  
8 then move on with the plan that you're considering under  
9 this SED.

10 Your proposed plan under the SED impacts the  
11 Eastside Water District drastically and the entire  
12 Turlock Subbasin.

13 Your staff has not an accounted for the  
14 groundwater pumping occurring throughout the lower San  
15 Joaquin Valley outside of its existing water district  
16 boundaries.

17 Eastside Water District is in the process of  
18 annexing nearly 9,000 acres of such land. And it  
19 understands how not accounting for this use can affect  
20 your staff's estimates on impacts to the Turlock  
21 Subbasin.

22 The Eastside Water District landowners have  
23 committed their own money, \$9 million, in capital  
24 projects and over \$900,000 a year in an operational  
25 budget to achieve groundwater sustainability under SGMA.

1           Your proposed actions on unimpaired flows and  
2 operational controls on storage significantly reduce, if  
3 not eliminate, all potential for the Eastside Water  
4 District water supply.

5           Without this water, achieving sustainability  
6 for the Turlock Subbasin is not possible.

7           I implore you, and the district implores you,  
8 that these impacts are avoidable if you indeed do stop,  
9 regroup, tackle the water quality issues planned when you  
10 have all of the pieces of this puzzle.

11           And thank you for your time.

12           CHAIR MARCUS: Thank you very much.

13           (Applause.)

14           CHAIR MARCUS: Thank you, sir.

15           Ms. von Hungren. Okay. Thank you.

16 Mr. Thompson. Mr. Dienning. Mr. Marchy. And then after  
17 you will be Ms. Postma and Mr. Netniss.

18           MR. MARCHY: Good evening. I know it's been a  
19 really long day for you guys. But thank you for  
20 listening to us.

21           Hello. My name is Robert Marchy from Turlock  
22 FFA in the central region. I'm representing the 21,000  
23 members of the Central Region FFA, where I currently  
24 serve the organization as the 2016, 2017 treasurer.

25           As most of us know in this room, less than one

1 percent of water on earth is available for human use.  
2 Each American uses an average of 100 gallons of water  
3 each day in their home.

4 California second highest's economic income is  
5 the agriculture industry. The Central Valley alone  
6 producing one-fourth of the world's entire food supply.

7 With that being said, the reduction of the  
8 agricultural water supply in the Central Valley would not  
9 only cause a local and state distribution, but the ripple  
10 effects could affect other states and neighboring  
11 countries. These are the facts and the statistics.  
12 However, coming from a passionate fourth-generation  
13 farmer, I'm here to strongly urge you the consideration  
14 of the direct effect on me, my family, and our economic  
15 future.

16 On our national basis, only one-and-a-half  
17 percent of Americans live on a family operation. I'm  
18 more than proud and honored to say that I'm one of those  
19 one-and-a-half percent.

20 That number is continuously dropping due to the  
21 costs of sustaining a family farming operation. With the  
22 cost increasing to put in wells and now the chance of  
23 water being sent out of the Central Valley, failing farms  
24 like mine won't be able to keep pursuing our passion for  
25 producing an adequate and safe supply of food.

1           We are trying to work together and strive to  
2 better our agricultural industry. As a fourth-generation  
3 Marchy dairy farmer, I'm fulfilling our duty and  
4 producing a sustainable and safe food supply. But I can  
5 only continue this heritage with the most the valuable  
6 resource, water.

7           As I stand before you today in my blue corduroy  
8 jacket, please keep this in mind as you vote to keep our  
9 valued water safe and allow my family the opportunity to  
10 farm for a fifth generation and not lose what my family  
11 and others have built over generations.

12           Thank you.

13           CHAIR MARCUS: Thank you very much.

14           (Applause.)

15           CHAIR MARCUS: Your family would be proud.

16           Ms. Postma. Jimi Netniss, ready. Followed by  
17 Mr. Osterli and Mr. Quesenberry.

18           MR. NETNISS: Good afternoon.

19           CHAIR MARCUS: Good afternoon.

20           MR. NETNISS: Thank you for giving us this  
21 opportunity to speak. Thank you for coming to Modesto.  
22 My comments and questions are very brief.

23           My name is Jimi Netniss. I'm a proud citizen  
24 of Turlock, and I'm proud to be from a state that  
25 considers the disadvantaged when it proposes new laws and

1 regulations. This appears to be absent from the  
2 proposal. What effort was put in to study how the SED  
3 impacts our disadvantaged communities? We've already  
4 seen many domestic wells run dry in our area. How will  
5 families that are on fixed and low income be able to  
6 handle this additional burden?

7           This proposal is simply not sustainable from  
8 many aspects. It impacts families and individuals who  
9 are most vulnerable and do not consider -- and does not  
10 consider the effects on those in our society that should  
11 be placed first when considering new regulations.

12           Access to clean drinking water is essential to  
13 the realization of all human rights. Please consider the  
14 data and the facts before you and hear the voices of the  
15 many in our community that cannot protect themselves.

16           Thank you very much.

17           CHAIR MARCUS: Thank you.

18           (Applause.)

19           CHAIR MARCUS: Mr. Osterli, followed by  
20 Mr. Quesenberry, followed by Ms. Rowe.

21           MR. OSTERLI: Good afternoon.

22           My wife is a retired school teacher, and I'm a  
23 retired farm advisor from this county from about 40 years  
24 ago. Anyway, she told me I write very well but all my  
25 sentences run together, so I should hand in the written

1 item. So, I've done that, but I have a couple of  
2 comments, if that's all right.

3 First, I was stunned by the 3,500-page document  
4 that you mentioned. And I don't think I could even pick  
5 it up and carry it here.

6 You've heard a lot about economic impacts and  
7 all that sort of thing. I would be curious what that  
8 thing cost to develop. Maybe you could enlighten some of  
9 us here to tell us what that document cost us. We're  
10 taxpayers. It would be nice to know.

11 Secondly, I was a little bit surprised by the  
12 comment from one of the councilmen from the City of  
13 Modesto that said that he had approached you to try to  
14 talk to you with -- to get some kind of response and  
15 negotiations, and it appeared to me that you were not  
16 aware that he had talked to the staff and he couldn't get  
17 anything out of the staff. So, that --

18 CHAIR MARCUS: We have a number of  
19 miscommunications where folks have had conversations with  
20 some people --

21 MR. OSTERLI: Okay, well --

22 CHAIR MARCUS: -- not others. We've been  
23 involved in conversations --

24 MR. OSTERLI: I would encourage you to  
25 continue.

1 CHAIR MARCUS: So there's plenty on both sides.  
2 We definitely want the conversation.

3 MR. OSTERLI: That's what has to happen here, I  
4 think --

5 CHAIR MARCUS: Right.

6 MR. OSTERLI: -- for anything to happen. Okay.

7 I tried to come up with a couple of things that  
8 might be positive, and then I heard -- I saw some things  
9 this morning that are different from what I was going to  
10 write, so I thought I would throw these out.

11 One, we're under a state order to reduce our  
12 water use. Well, this proposal is to significantly  
13 increase the river flow straight to the ocean. That  
14 doesn't make any sense. You know, you talk common sense,  
15 it doesn't make sense to me. You're talking about  
16 pumping groundwater to replace surface water, and we have  
17 problems doing both. That really doesn't make an awful  
18 lot of sense. Changing the cropping patterns is absurd,  
19 that just doesn't make sense at all. And the economic  
20 impacts that you heard today that you have developed  
21 don't seem to coincide with what happened when you hear  
22 elsewhere -- well, I made it just about done, didn't I?

23 I would just like to finish by saying that over  
24 my 35 years as a farm advisor I went to an awful lot of  
25 public hearings and I went to a lot of places where

1 people like you and your staff come out to the various  
2 communities, you listen to the comments, you go back to  
3 wherever you came from, and sometimes you put them away  
4 in a file, and just feel good about making the effort to  
5 come down and talk to people. I'm hopeful that this time  
6 that you guys will go beyond that. Because I think it  
7 really needs to happen.

8 So, good luck to you.

9 CHAIR MARCUS: Thank you.

10 MR. OSTERLI: My kids live here, grandkids live  
11 here. It worries me to death to think that the kinds of  
12 things that you're talking about are going to be  
13 implemented. And that's -- and I'm also an  
14 environmentalist. I love to go fishing. But I catch my  
15 fish in Alaska. It's a lot easier to do it up there.

16 (Applause.)

17 CHAIR MARCUS: It's great if you can get there.

18 Mr. Quesenberry, followed by Ms. Rowe, followed  
19 by Mr. Edwards.

20 MR. QUESENBERRY: Hello. My name is David  
21 Quesenberry. And thank you for when you said the  
22 Bay-Delta, calling it an estuary. Because I think when  
23 they did the water contracts for the Delta-Mendota and  
24 the California Aqueduct, they treated the Delta as a  
25 lake, and that has created the problem that you are

1 having to address now.

2           And you're trying to treat the symptoms instead  
3 of the problem. Is there any way you can treat the  
4 problem? You know, I hope you can address the problem  
5 because just in -- what is it -- because within 1970,  
6 there was around 4-, to 5,000 young strippers in the  
7 Delta that the Fish and Wildlife counted, new, young,  
8 strippers. In the last count, was in 2010, there was 34  
9 young strippers. And if you correlate the strippers, the  
10 Delta smelt, and the salmon population, they probably all  
11 decreased at the same time. And this little bit of  
12 inflow that the Merced, San Joaquin, and the Stanislaus  
13 River are going to inflow, if they do not reduce the  
14 pumping while those waters are going, going, going down,  
15 it will not help the salmon. It won't help the Delta  
16 farmers, where they can't grow -- they don't grow their  
17 asparagus anymore because it's too salinity there.

18           So, okay. Thank you.

19           CHAIR MARCUS: Thank you.

20           (Applause.)

21           CHAIR MARCUS: Ms. Rowe, Mr. Edwards,  
22 Ms. Veenstra.

23           Ms. Veenstra, followed by Mr. Hollingsworth.

24           MS. VEENSTRA: Good afternoon.

25           CHAIR MARCUS: Good afternoon.

1 MS. VEENSTRA: Or good evening, maybe.

2 CHAIR MARCUS: Is it?

3 MS. VEENSTRA: Almost. Thank you for sticking  
4 with us.

5 CHAIR MARCUS: We said "good morning" in the  
6 afternoon, though, so we may be a little confused.

7 Great. Thank you.

8 MS. VEENSTRA: So my name is Danielle Veenstra,  
9 and I'm speaking on behalf of the Almond Board of  
10 California, a federal marketing order representing  
11 California's over 6,800 almond growers and 100 handlers,  
12 all based in the Central Valley.

13 Almonds are the number two acreage and value  
14 crop in California, with a farm gate value of  
15 \$5.3 billion.

16 Over 91 percent of California's almond farms  
17 are family farms, many owned and operated by third- and  
18 fourth-generation farmers. I, myself, am from a  
19 third-generation almond growing family with roots in  
20 California agriculture dating back to the late 1800s.

21 Additional costs of water harm farmers' bottom  
22 line. And this proposal could mean that small businesses  
23 like my family's may cease operation and sell out,  
24 abandoning our agricultural heritage. This would  
25 significantly impact the economic base for our many rural

1 communities. Many jobs in this area are ag related, as  
2 we've heard a lot about today.

3           The almond industry generates 104,000 jobs  
4 statewide, 97,000 of which are in the Central Valley.  
5 Reductions in economic output stemming from this proposal  
6 are more significant given the region's higher rates of  
7 poverty, lower educational attainment, and dependence on  
8 agriculture.

9           We welcome greater coordination with the  
10 agricultural community ensuring that farming's long-term  
11 prospects and sustainability are enhanced alongside the  
12 regions' fisheries. To do this, we must develop a  
13 coherent water policy that combines analysis of surface  
14 and groundwater supplies under all potential regulatory  
15 limitations with increased resiliency to California's  
16 climatic variation. Making coherent policy isn't easy,  
17 particularly when current state law encourages  
18 groundwater sustainability and recharge while this  
19 proposal limits surface water supplies and could reduce  
20 groundwater recharge.

21           It is imperative that the Water Board's  
22 Bay-Delta Plan amendments are consistent with other  
23 policies, like SGMA. The almond industry is investing in  
24 research for sustainable solutions for water supply,  
25 conservation, and storage, including groundwater

1 recharge. Implementation of these solutions become more  
2 difficult if surface water supplies are reduced.

3           The Almond Board supports a delay in making a  
4 final decision, as more time is needed for wider  
5 stakeholder discussions. We also encourage the Board to  
6 ensure that any actions taken reflect the impact of  
7 recent federal legislation.

8           Thank you.

9           CHAIR MARCUS: Thank you.

10           (Applause.)

11           CHAIR MARCUS: Mr. Hollingsworth.

12           MR. HOLLINGSWORTH: I'm Gordon Hollingsworth.  
13 Good afternoon, and thank you for your enduring patience.  
14 It's been a long afternoon.

15           Okay. Is that better?

16           CHAIR MARCUS: Yeah.

17           MR. HOLLINGSWORTH: Cool.

18           I'd like to address the argument that's been  
19 made today that you should not consider reduce -- should  
20 not consider releasing more water until you deal with  
21 predation and habitat improvement. And the gist of what  
22 I'm thinking is that, as regards to predation, the big  
23 issues are introduced species, one of which is the  
24 striped bass, which was introduced I think around 1880  
25 into the San Francisco Bay Area.

1 CHAIR MARCUS: That's another one of those when  
2 history begins issues.

3 MR. HOLLINGSWORTH: Yeah.

4 And with the Central Valley project and the  
5 State Water Project, those fish are now indigenous in  
6 California. So, although they are voracious predators,  
7 the whole idea of effectively eliminating them or  
8 reducing them is problematic, at best.

9 And I would note that since they've been around  
10 for such a long time, as have the warm water freshwater  
11 species like smallmouth and largemouth bass, the salmon  
12 populations have coexisted with these predators. And we  
13 have spent millions of dollars to the irrigation systems'  
14 credit in trying to fix the habitat, but it hasn't  
15 worked. So, we're basically left with very few  
16 alternatives.

17 If you want to try and preserve the salmon, the  
18 only thing that hasn't been tried is releasing more  
19 water.

20 That's my point, and thank you for the  
21 consideration.

22 CHAIR MARCUS: Thank you, sir.

23 (Applause.)

24 CHAIR MARCUS: All right. Thank you all.

25 Interesting range.

1           Next, we have a presentation by the Stanislaus  
2 Regional Water Authority and the City of Turlock.  
3 Thirty minutes.

4           Do I need to take a ten-minute break?

5           MS.DODUC: Yes.

6           CHAIR MARCUS: I think I need to take a  
7 ten-minute break. My apologies. I'm losing Board  
8 members left and right. So, let's take a -- just a  
9 ten-minute break, though, and then we'll be right back.

10          (Off the record at 4:46 p.m.)

11          (Back on the record at 5:02 p.m.)

12          CHAIR MARCUS: Mr. Cooke.

13          MR. COOKE: Hello.

14          CHAIR MARCUS: Got it.

15          MR. COOKE: Okay. Good evening, Chair Marcus,  
16 and members of the Board. I thank you again. Like  
17 everybody else, thank you for coming here. It really  
18 does mean a lot to us to hear from you. And I've met  
19 some of you in person up in Sacramento, so it's nice to  
20 see you down here in our part of the world.

21                 My name is Michael Cooke. I'm the Director of  
22 Municipal Services for the City of Turlock. I'm also a  
23 member of the technical advisory committee for the  
24 Stanislaus Regional Water Authority. And you heard from  
25 our Vice Chairman this morning, the Mayor of Ceres, Chris

1 Vierra.

2 I'm also past president of the Turlock  
3 Groundwater Basin Association.

4 And we supply drinking water to Ms. D'Adamo.  
5 She lives in town, so --

6 As the vice chair's mentioned this morning, the  
7 SRWA is a joint powers authority of the City of Ceres and  
8 the City of Turlock. And our goal is to develop a supply  
9 of drinking water from the Tuolumne River supplied by the  
10 Turlock Irrigation District.

11 And, like you, the City of Turlock is concerned  
12 with the declining salmon population. However, we are  
13 concerned a little bit with the approach that the SED  
14 proposes.

15 And I'd like to thank you. The previous  
16 version of the SED really didn't concern itself by the  
17 impacts of unimpaired flows on urban and municipal water  
18 supply. You've done a much better job this go around in  
19 looking at those impacts, and I appreciate that. So --

20 CHAIR MARCUS: We still heard some shortcomings  
21 in these hearings, but we tried. So, we'll keep trying.

22 MR. COOKE: And you might hear a few more from  
23 me, but --

24 CHAIR MARCUS: Please.

25 MR. COOKE: -- I do -- the people who said you

1 don't listen, I think that's unfair. You do listen. And  
2 we may disagree on some points, but I appreciate the  
3 changes you've made so far.

4           So, we recognize, like many others -- and the  
5 PPIC had a good paper out recently, there are issues with  
6 the salmon population, but we're willing to focus on more  
7 issues than just flow, take a more comprehensive and  
8 balanced approach to declining salmon populations, look  
9 at it more on an ecosystem-wide basis.

10           We recognize that you have limited tools at  
11 your disposal. Water rights is probably your most  
12 powerful tool. So, you're a little bit stymied in what  
13 you can do. But my concern is water rights is a very  
14 blunt instrument that you have for your goals and  
15 objectives here. To me, it's like you're trying to do a  
16 delicate surgery using a pair of kitchen scissors, and  
17 you're sure to have an impact, but the results may not be  
18 effective or desirable.

19           And as a version of the Hippocratic oath, it  
20 starts with, "First do no harm." And we're concerned  
21 that, although your goals are laudable, you may be doing  
22 more harm without achieving your stated objectives.

23           So, just so you understand, the City of Turlock  
24 has a population of 72,000 people. We supply drinking  
25 water through about 19,000 connections. As you've heard

1 many times today, our economy is mainly agricultural  
2 based. Our many employers are food processors, including  
3 Foster Farms, Sunnyside Farms, Blue Diamond Growers, Land  
4 O'Lakes and many, many others. And all these people rely  
5 on -- dependent -- all these people are dependent upon a  
6 safe and reliable water supply for their existence.

7           And we're entirely dependent on groundwater for  
8 our drinking water supply right now. And we have 19  
9 active wells. I would like to thank Board Member  
10 D'Adamo. When considering conservation, she leads the  
11 way on our block. She's one of my neighbors, so -- she  
12 has the brownest lawn. So, rest assured, she's doing her  
13 part.

14           But we continue to lose wells through  
15 contamination and declining water levels. And we've also  
16 helped out on our region supplying emergency water  
17 supplies to the county through a program they have  
18 with -- I can't think of it -- it's Self-Help  
19 Enterprises. And we've also done some emergency tie-ins  
20 to neighbors who have lost their wells.

21           So, we take the health of the salmon fishing  
22 very seriously. Since 1922, we have discharged our  
23 treated wastewater into the San Joaquin River. And, over  
24 the years, we've made significant investments, almost  
25 \$60,000,000 in the past ten years, to improve the quality

1 of our wastewater effluent. And right now, we're in the  
2 final throws of designing our recycled water conveyance  
3 pipe plan. You've met me before, the North Valley  
4 Recycled Water Program. So, we hope to that under  
5 construction towards the end of next year and join in  
6 with the City of Modesto and Del Puerto Water District.  
7 So, that's been a great project.

8 And we're also working on getting some recycled  
9 water to TID to put in their canal system. So, if we  
10 could just get some help from your regional board, we  
11 would appreciate it.

12 And we understand our responsibility to  
13 conserve water. Last year, we pumped about 5.6 billion  
14 gallons. So, for my ag friends, that's about 17,000  
15 acre-feet, which is about the same amount of water we  
16 pumped in 1994.

17 CHAIR MARCUS: Can I just interrupt you for a  
18 minute?

19 If you're -- I'm happy to have you all have  
20 conversations, but if someone can either close the door  
21 or let the folks know standing in the doorway that it's  
22 just a little distracting and I want to have total focus.  
23 Thank you.

24 MR. COOKE: Okay. So, we've pumped  
25 17,000 gallons -- I'm sorry 17,000 acre-feet last year,

1 the same amount that we did in 1994. So, in 21 years,  
2 we're pumping the same amount of water even though our  
3 population has grown by 24,000 people in that time. So,  
4 that's a reduction of per-capita reduction by 34 percent.  
5 And we will succeed in the requirements under SB X7-7.  
6 We've exceeded the conservation requirements in our Urban  
7 Water Management Plan. And like there's 33 of us out of  
8 379 who still have conservation orders under your amended  
9 emergency regulation. And we adopted a higher standard  
10 than we needed to, we went to 20 percent instead of  
11 16 percent, recognizing the issues that we're having with  
12 our aquifer.

13 But despite all that conservation, our aquifer  
14 continues to decline. It's at a record low level. So,  
15 one of the concerns that we have is the SED really  
16 focuses on conservation as if that's a solution. And  
17 we've shown that we can conserve as much as we can but it  
18 has no impact whatsoever on our aquifer conditions, at  
19 least under the City of Turlock.

20 And, as you saw earlier, we really need to  
21 expand our portfolio of water resources as a community.  
22 Our groundwater is a diminishing resource. And, as you  
23 saw earlier, the Turlock and Modesto subbasins are the  
24 own two subbasins in the San Joaquin Valley that are not  
25 critically overdrafted, and there's no coincidence to

1 that. The surface water supplies from the TID and MID  
2 are our largest source of recharge and helps recharge our  
3 aquifer.

4 But, despite that recharge, we're looking at  
5 various options to develop a service water supply, and  
6 we've worked with Ceres to form the Stanislaus Regional  
7 Water Authority, and TID to get about 30,000 acre-feet  
8 from TID; 20,000 for Turlock, 10,000 for Ceres, which is  
9 the maximum build out. It'll start with the smaller  
10 amount.

11 And, also, that's been kind of our means of  
12 complying with SGMA. So in-lieu recharge, less  
13 groundwater pumping. We thought we had the perfect  
14 solution. And, then, in our recent conversations with  
15 Turlock Irrigation District, their preliminary estimates  
16 show that they'll have very limited water supply to  
17 provide us.

18 So, it looks at this point that we won't be  
19 able to make that \$150,000,000 investment if we don't  
20 have a stable supply to -- a stable raw water supply.  
21 So, it's really kind of put our project in this tailspin  
22 at this time.

23 And, so, we're concerned with the flow  
24 requirements in the SED will further exacerbate our  
25 drinking water supply and drinking water quality problems

1 and take away our ability to comply with SGMA.

2           Unlike most of the people who have spoken  
3 today, I've really focused on the urban aspects in the  
4 SED, Chapters 13 and 16. And -- sorry -- the document  
5 notes that there will be a significant reduction in  
6 supply and a significant reduction in groundwater  
7 quality. And that's a big concern for me.

8           It notes certain communities like Hilmar,  
9 Keyes, and Hughson, and the community of Hickman, may  
10 have significant water supply issues. And Hickman's  
11 important because my wife grew up there, so that is a  
12 concern for me.

13           So, the SED says, well, you know, you have  
14 these impacts, there is two ways out of it. You can  
15 reduce groundwater degradation through compliance with  
16 SGMA, or you can build a number of infrastructure  
17 projects. Okay. That's fine.

18           It talks about sale and transfer of service  
19 water, recycle water supplies, new service water  
20 supplies, but all these things are very expensive and  
21 we're talking about millions and millions of dollars to  
22 make those investments in that infrastructure to offset  
23 the impacts of the flow proposals in the SED.

24           And the document doesn't consider the financial  
25 feasibility, the regulatory feasibility, the political

1 feasibility of doing those projects.

2           And, so, I'm concerned that we'll have  
3 a -- this part of the San Joaquin Valley will lack access  
4 to an adequate supply of safe drinking water.

5           And one of the things that frustrates me as a  
6 former CEQA practitioner is that all of the impacts, the  
7 state says, well, we can't mitigate those because we  
8 don't have control over that. So, if there's a new  
9 service water supply needed, well, we don't build service  
10 water plants, so somebody else needs to figure that out.  
11 And I feel like you're really not taking care of your  
12 responsibilities under CEQA as the lead agency.

13           The Board of Trustees of the California State  
14 University System went through this a few years ago with  
15 CSU Monterey Bay. Where they said, hey, our traffic  
16 impacts off campus are not our problem, that's the city's  
17 problem. And the California Supreme Court said, no, if  
18 you know you're having an impact, even if it's off your  
19 campus, you need to mitigate it. And that was recently  
20 upheld again in San Diego as San Diego State was looking  
21 to expand.

22           So, I really encourage you to look at -- it's  
23 called the Marina dictum. Your CEQA attorneys will know  
24 it better than me. But I think there's obligation for  
25 the state to look at providing -- for the State Water

1 Board to offset some of these impacts to the environment  
2 through this project.

3 And, really kind of as a human being, not just  
4 as my professional role, but I'm really concerned that  
5 the crisis we've seen the last few years in East  
6 Porterville could be replicated on a larger scale in our  
7 region.

8 And I don't say that lightly and I don't mean  
9 to be an alarmist. And I think the issue in Flint,  
10 Michigan, has really pushed East Porterville off the  
11 front-page news, but there's a significant problem down  
12 there and it's being addressed, but it's taken three  
13 years to get there. And that's a big concern for me.

14 And, if you've had no running water when you go  
15 tent camping or your water supply goes out, you know how  
16 miserable it can be to be without running water. And  
17 that could affect a large part of this part of the Valley  
18 right here.

19 And, as a kid, why I have a degree in  
20 geography, so I always used to watch geography programs  
21 when I was a kid. I used to love National Geographic.  
22 And as a third grader, you'd see parts of Africa where  
23 they're hand pumping water and carrying it in buckets and  
24 you felt so sorry for those people. You think, thank  
25 goodness I live in a more developed country. But that

1 could happen here. I don't mean that in a trite way, but  
2 that could happen. It's happened in East Porterville; it  
3 could happen here. And that's a big concern for me.

4           And, last summer, the Bee wrote that California  
5 has leapfrogged France and Brazil to become the world's  
6 sixth largest economy. And I can't believe in the  
7 world's sixth largest economy people will be working  
8 water from totes and taking showers at a trailer at a  
9 church before they go to school. That's what people in  
10 East Porterville do.

11           So, I think we really need to be careful of  
12 that as human beings. So --

13           CHAIR MARCUS: We've spent a lot of time trying  
14 to help there.

15           MR. COOKE: Yeah. But it takes a while, right?

16           CHAIR MARCUS: Yeah. Water is flowing now to a  
17 lot of people.

18           MR. COOKE: Yeah, it's not easy. Right? But  
19 it's been two years of misery for those poor people.

20           So, the SED correctly states all Californians  
21 have a right to safe, clean, affordable, and accessible  
22 water adequate for human consumption, cooking, and  
23 sanitary purposes. Safe water is necessary for public  
24 health and community prosperity. So, we need a safe,  
25 clean, affordable, accessible water supply.

1           So, I urge you to take a more balanced approach  
2 to addressing the fisheries concerns, which we all share.  
3 I urge you to be more active in developing water supply  
4 projects that ensure this region's basic right to a  
5 clean, safe, and affordable water supply is ensured. And  
6 I urge you to take a more systematic and surgical  
7 approach to addressing the ailing salmon populations.

8           And, again, I fear the proposals will maybe do  
9 more harm than good on a human scale in our region. But  
10 we are here with you to work on solutions to improving  
11 the salmon fisheries. So, anything we can do, we're  
12 happy to do so.

13           Those are my comments. And I lost my panel.  
14 They're dwindling faster than the salmon I think. But I  
15 would be happy to answer any questions.

16           CHAIR MARCUS: No. Thank you very much. And  
17 we appreciate your spending the time. Questions today?  
18 I want to hear more about her lawn, but we'll save that  
19 for another time.

20           MR. COOKE: And she put --

21           CHAIR MARCUS: I'm so proud of her.

22           MR. COOKE: She did. She did.

23           CHAIR MARCUS: She should have a brown lawn.

24           MR. COOKE: She did. And she has soaker hoses  
25 on her trees to keep her trees alive. So, she did the

1 right thing.

2 CHAIR MARCUS: That's right, you can train.

3 Questions?

4 MR. COOKE: Thank you.

5 CHAIR MARCUS: Thank you, sir. And thank you  
6 for abbreviating it for the folks who are waiting.

7 (Applause.)

8 CHAIR MARCUS: All right. I'm going to read  
9 off the next 15. Trish Anderson, Diane Kroeze, Jim  
10 Duarte, John Duarte, Fred Werner, Daniella Salzman, Dan  
11 Lamb, Jeff Duarte.

12 Do I have that twice? All right. Got it.

13 Brandi LaForti, Jerry Ogle, Jimmy Duarte,  
14 Jessica Raeder.

15 Oh, we already did Jessica Raeder. I remember  
16 that.

17 Daniel Lara, Susan Lara, Joey Gonsalves.

18 Ms. Anderson.

19 MS. ANDERSON: Thank you, Chair Marcus. Thank  
20 you, Board. Thanks for sticking with us today.

21 CHAIR MARCUS: Sure. Thank you for coming and  
22 for you sticking with us today.

23 MS. ANDERSON: Many elected officials have  
24 spoken today about the sad statistics of our county here  
25 in Stanislaus County and the greater Central Valley. One

1 thing that hasn't been put up enough today, I don't  
2 think, is the people here today. And a lot of them have  
3 left. But we know they're here.

4 We are friends, neighbors, and family. We  
5 actually speak to one another still. We like each other.  
6 And it's much different than some of the larger  
7 communities that are wanting the resources that support  
8 us here. So, we take this a little personal.

9 We are a resilient valley. We have been  
10 amazing stewards of our natural drought in the last five  
11 years. However, I'm not here to speak about the great  
12 stewards who are my friends and family. I'm here to tell  
13 you about 545 students who I refer to as "my kids." You  
14 see, I'm a school principal of a TK-through-sixth school  
15 here in Modesto.

16 Ninety-seven percent of my students receive  
17 free and reduced lunch. That means they're kind of poor.  
18 Seventy percent of them are Hispanic and Latinos. These  
19 two facts say some things about -- that are really hard  
20 to ignore.

21 Our students live with parents who are proud,  
22 hard-working people who came to this state because of the  
23 farm labor that was available to them. They continue to  
24 work hard to achieve their dreams with companies like  
25 Gallo, Foster Farms, Blue Diamond, Crystal, Diamond Pet

1 Foods, to name a few. They're working hard to improve  
2 the future of their children. They expect clean, safe  
3 schools, and their landlords' property taxes pay for  
4 that. Their future and the future of our school is  
5 dependent on water, our Valley's most important resource.

6 Can I finish? It's very quick.

7 CHAIR MARCUS: Just make it -- fine.

8 Absolutely.

9 MS. ANDERSON: Hence the stewardship we have  
10 practiced for eons.

11 I plead to you on behalf of my kids, all 545 of  
12 them, consider the non-flow compromises these stewards  
13 are offering. The water districts have managed this  
14 Valley's water for decades. Bring them to the table.  
15 Listen to their research.

16 And I'll close with this, a quote from Nelson  
17 Mandela, "Education is the most powerful weapon you can  
18 use to change the world."

19 Let the local districts educate you about our  
20 Central Valley water so I can continue to educate my  
21 kids.

22 Thank you.

23 (Applause.)

24 CHAIR MARCUS: Thank you very much.

25 Ms. Kroeze, Jim Duarte, and then John Duarte.

1 MR. DUARTE: I'll be your only Duarte today.

2 CHAIR MARCUS: Huh?

3 MR. DUARTE: I'll be your only Duarte today.

4 CHAIR MARCUS: Oh, all right.

5 MR. DUARTE: My brother Jeff and my father Jim  
6 are back running the company while I fight the federal  
7 government to farm wheat and argue with you folks about  
8 water.

9 CHAIR MARCUS: It's good to see you. I saw  
10 your dad --

11 MR. DUARTE: John Duarte, fourth-generation  
12 Stanislaus County farmer.

13 I got to say, I do appreciate you being here  
14 today. And I have to wonder why you would stay engaged  
15 in this process. When I look at what's happening under  
16 the FERC process and what our local districts are  
17 presenting to you in terms of sound science,  
18 multi-pronged approaches to resolve real issues in the  
19 Delta using real science and their oversight with federal  
20 government agencies, what -- the tools you have in your  
21 toolbox, as the gentleman just communicated, are blunt  
22 and inadequate and you're likely, in the process of only  
23 controlling flows and not looking at any of the over  
24 measures being addressed in your FERC process that are  
25 much more effective and much less costly to our

1 community, why you don't back up, stand aside, and let  
2 that go forward for a couple of years and let our  
3 community use its local resources, \$24,000,000 spent  
4 already, to come up with our own plan and see if it's not  
5 far superior to the 1,100 fish that you'll save with your  
6 plan at a cost of -- if it's a \$62,000,000 economic  
7 impact, it's going to be \$56,000 a fish. If it's a  
8 billion-dollar impact or more, it's going to be a million  
9 dollars of fish. I think we can do better locally.

10           Second of all, there's a pretense that has been  
11 attacked several times today, that this water will go to  
12 the Delta and then to Los Angeles. I'll read you from  
13 the California Section of the new Water Quality  
14 Investment Act from the federal government, just passed  
15 recently, a -- just a moment here. A quote that says  
16 exactly that, "Adopt a one-to-one inflow to export ratio  
17 for the increment of increased flow as measured as a  
18 three-day running average at Vernalis during the period  
19 from April 1st to May 31st."

20           So, the new Water Quality Investment Act, to  
21 me, now maybe we need to let the agencies get ahold of it  
22 and run it around, do their implementation for a few  
23 years while you let our districts come up with a better  
24 plan that you have any chance at because you've only got  
25 one tool and they've got many.

1 I don't understand why you would go forward  
2 with your process with these facts hanging out there.  
3 You may not have the federal authority on your side, and  
4 you may have a better solution locally, and there are  
5 many more tools than what you even have authority over.

6 CHAIR MARCUS: Yes, we've invited that.

7 MR. DUARTE: Thank you for being here.

8 Well, up until today, there's been a theme that  
9 maybe you were never communicated the information, maybe  
10 it didn't get to you, maybe your secretary ate it. I  
11 don't know.

12 CHAIR MARCUS: No --

13 MR. DUARTE: But, today, obviously, you've had  
14 the information from our local community now, and I think  
15 you've had it very credibly. And I hope that does guide  
16 you towards a very, very different path.

17 Thank you.

18 CHAIR MARCUS: Thank you.

19 (Applause.)

20 CHAIR MARCUS: Mr. Werner, who also gave us  
21 written.

22 Ms. Salzman. Mr. Lamb, followed by Ms. LaForti  
23 and Mr. Ogle.

24 MR. LAMB: I would like to also thank you for  
25 coming to Modesto and giving me an opportunity and my

1 neighbors an opportunity to speak to you today.

2 My name is Dan Lamb. I'm a third-generation  
3 farmer on the west side of Turlock. I grow field crops.  
4 For what it's worth, I'm also an engineer, also a  
5 Berkeley grad. Go Bears.

6 CHAIR MARCUS: Thank you for doing that. Thank  
7 you for doing that just to make her happy.

8 MR. LAMB: So I'd like to talk to you briefly  
9 and give a face and some figures associated with what I  
10 thought was casually brought up by some of the analysts  
11 earlier, the concept of fallowing in the Central Valley.

12 So, my irrigation district, the Turlock  
13 Irrigation District, says no water for two years when  
14 they perform an analysis of the 40 percent flow rate  
15 limitation.

16 What does that mean to me? The face. I'm  
17 seriously out of business on my family farm. My family,  
18 my employees take that hit. But the thing that really  
19 makes my heart sore, "sore" not S-O-A-R, S-O-R-E, is I  
20 wonder how bad this is for others and what are the  
21 impacts of fallowing. So, I ran a spreadsheet and I did  
22 some analysis based on Cornell University research.

23 Basically, it deals with New York State and how  
24 many people are fed per acre of agricultural production,  
25 in a broad sense. I made some adjustments for the fact

1 that here in central California we are unparalleled in  
2 our productivity, and so those numbers were adjusted a  
3 little bit. And, so, I hope you can see the spreadsheet.  
4 I apologize, sometimes these are a little bit small and  
5 hard to read. But mine only has one cell. So, this  
6 number right here is the number of people that are unfed  
7 by my farm. And if the TID doesn't deliver water to me  
8 for two years, these are the number of people that are  
9 unfed. I didn't say "underfed," unfed for two years.  
10 And that number is the reason why I decided to stand up  
11 here and talk to you guys because I don't think that's  
12 really been recognized, as how significant that really  
13 is.

14 CHAIR MARCUS: We also -- we do have to sit  
15 down and see where the numbers --

16 MR. LAMB: I would be more --

17 CHAIR MARCUS: It's clearly not the intent, so  
18 we have to sit and go over the materials when they come  
19 from TID. That's absolutely not the intent, so --

20 MR. LAMB: Okay. So, my bell has rung here, so  
21 I would like to just close by saying that I would like to  
22 encourage you not to take water from productive  
23 agriculture. Look at all the non-flow alternatives. And  
24 I also hear that some of those non-flow alternatives are  
25 not under your control. And I would suggest that if

1 that's the case, we need to take a different approach.  
2 The gentleman before suggested one different approach,  
3 others have been suggested.

4 But we look at who's at the table, who has the  
5 ability to enforce those non-flow alternatives and leave  
6 production of agriculture in the Central Valley doing  
7 what it does so well, which is feed people.

8 Thank you very much for coming.

9 CHAIR MARCUS: Thank you very much, Mr. Lamb.  
10 Ms. LaForti? Or Pam Sweeten. Okay. So, I'll  
11 take that card. You were as an alternate but you  
12 were -- got it. That's fine.

13 It's going to be another card.

14 MS. SWEETEN: Pamela Sweeten, Stanislaus County  
15 California Women for Agriculture and member of American  
16 Agri-Women. Thank you to the members for coming and  
17 listening to our plight today.

18 Stanislaus County is a viable, vibrant  
19 community that not only feeds ourselves but feeds many  
20 people around the country and around the world. Without  
21 agriculture, we cannot provide a safe, reliable, domestic  
22 food supply. That should be a national security issue  
23 for everyone here in this room, not just those of us that  
24 are involved in ag, but everyone else.

25 Every time we go to the grocery store, we

1 choose if we want American-grown food. And I don't want  
2 to feed my family or my grandchildren food grown in a  
3 third-world country, which is what you're driving us to  
4 do.

5           So, I really plead with you to look at the  
6 solutions that have been brought today. Let TID, MID,  
7 OID, let's go back and let's revisit, let's have a  
8 conversation. They know the water. They know the  
9 rivers. They've done so much studies. We need to put it  
10 in their hands and not be dictated by Sacramento or  
11 anyone else.

12           Thank you.

13           CHAIR MARCUS: Thank you.

14           (Applause)

15           CHAIR MARCUS: Mr. Ogle.

16           I don't want -- are you speaking for every  
17 single Duarte? Might there be Duartes that aren't your  
18 family of Duartes?

19           MR. DUARTE: (Inaudible) it's not my Duarte.

20           CHAIR MARCUS: How about Jimmy Duarte?

21           MR. DUARTE: (Inaudible).

22           CHAIR MARCUS: Okay. I just wanted to make  
23 sure I wasn't necessarily kicking out people named Duarte  
24 that you weren't speaking for.

25           Duarte, yes.

1 Daniel Lara, Susan Lara, Joey Gonsalves.

2 MR. GONSALVES: Thank you for sticking around.

3 My name is Joey Gonsalves. And I work for  
4 Stanislaus Farm Supply, and we're 67-year-old  
5 farmer-owned supply cooperative, one of the last in  
6 California. You know, the big conglomerates we've got to  
7 compete with make it tough.

8 But we've been able to grow, and we've got  
9 about 130 people in California and Nevada that are  
10 employed with us, about 85 in Stanislaus and Merced  
11 Counties. And, you know, they're good jobs. They're  
12 jobs that we have MBAs, we have soil scientists, all the  
13 way down to immigrants that are just starting out.

14 And what is unique about our company is that  
15 regardless of your position, if you're a full-time  
16 employee, you get company-paid health insurance, you get  
17 a 401(k) that's really good. I mean, guys who didn't  
18 think they were going to be able to retire, you know, and  
19 weren't going to be able to retire earlier, are able to  
20 with this. And those jobs go away if food production  
21 goes away in this region.

22 And, you know, I was going to talk a lot about  
23 stats and our company and how it would affect us and the  
24 community, but I was hearing a lot about water and, you  
25 know, there's just not enough to go around, farmers need

1 to utilize it better. I'll tell you, our company, we  
2 sell irrigation equipment to farmers also, and they've  
3 put huge investments recently to improve their water-use  
4 efficiency, to make better use of that water, and they've  
5 done so and improved their production. And they're going  
6 to continue to make those investments, at least I hope  
7 they do. But they're going to do it better and continue  
8 to be great stewards. I mean, they have to work in  
9 harmony with the land all of the time.

10           And when we talk about this, you know,  
11 sometimes you got to protect environment from the  
12 environmentalists. And I don't mean to disparage anybody  
13 with that. But, a lot of times, there's really good  
14 intentions and good ideas that have really negative,  
15 unintended consequences.

16           And this 40 percent flow is not a natural flow  
17 for the river. And maybe I kind of think from a  
18 simplistic thing. I wasn't, you know, a biologist or  
19 anything. But I think about before there were people,  
20 before there were dams, you know, 10,000 years ago or  
21 longer, I mean the river has been around for a long time,  
22 there wasn't people monitoring flows, there wasn't people  
23 checking temperatures, and those rivers continued to  
24 work.

25           And, you know, you think about what happened.

1 Well, you had the spring snow melt and runoff, those  
2 lives ran full, in fact, so full they ran over and  
3 flooded, and those hatchlings were washed out to the  
4 ocean. They lived out there. Late summer, fall, you  
5 know, those rivers barely ran. In some years, maybe  
6 parts of them went dry. And the salmon survived. But it  
7 kept those predator fish in check.

8 Well, now because of dams, you know, of course,  
9 we need dams to protect communities and lives from  
10 flooding, we needed to provide water for drinking water  
11 and food production, but we're able to spoon feed that  
12 water and we probably keep those predator fish around a  
13 little more than normal.

14 And I'm scared this 40 percent flow is maybe  
15 not a normal flow and what consequences is that going to  
16 be? Will we be better off -- maybe we run it full for a  
17 couple of months like it normally would and then slowly  
18 shut that off. And if there's a drought and the river  
19 does go a little drier, you know, that's okay. I mean,  
20 life finds a way. It's done that in the past before us  
21 and it will continue, you know. But we maybe need to  
22 work more in harmony with nature just like farmers do.  
23 So, I encourage you to do that.

24 CHAIR MARCUS: No. Thank you for that. That's  
25 all very well said. I mean, part of the challenge is

1 that the dams, which do incredibly useful things, have  
2 cut off where the fish used to summer in the cold-water  
3 pool.

4 MR. GONSALVES: Exactly. Right.

5 CHAIR MARCUS: So we have a challenge that's  
6 more than a puzzle, it's a thorny one.

7 MR. GONSALVES: Yup.

8 CHAIR MARCUS: But thank you for your eloquence  
9 in what you had to say.

10 MR. GONSALVES: Thank you for your time, too.  
11 All right. Thank you.

12 CHAIR MARCUS: It was good.

13 (Applause.)

14 CHAIR MARCUS: Very good.

15 Next, we have the Stanislaus County Farm  
16 Bureau, who have requested 15 minutes.

17 I saw you and then I saw you walk out. I  
18 thought I was going to miss you entirely. Hi.

19 MR. ZIPSER: I'm here.

20 CHAIR MARCUS: Good. Glad to see you.

21 MR. ZIPSER: Good evening, Chair Marcus, and  
22 fellow Board members.

23 My name is Wayne Zipser. I'm the Executive  
24 Manager of the Stanislaus County Farm Bureau. The farm  
25 bureau, Stanislaus County Farm Bureau, represents about

1 1,700 farm families in Stanislaus County. And I want to  
2 reiterate "farm families" because 98 percent of all of  
3 our farmers in Stanislaus County are family farmers.  
4 And --

5 CHAIR MARCUS: You know what? I was talking to  
6 someone earlier, I really do appreciate that. I think  
7 the last couple of days, hopefully, we have people  
8 listening who -- people make cartoons of ag or of  
9 whatever, it's all corporate farmers. There's nothing  
10 wrong with corporate farmers. But the amount of emphasis  
11 and the actual extent of family farming is something that  
12 I think folks overlook because it's convenient to a  
13 talking point, just as folks do the same thing to fish  
14 sometimes.

15 So, I just want to thank you and commend  
16 everyone who has helped really bring that home the last  
17 couple of days.

18 MR. ZIPSER: And thank you for bringing that up  
19 because the vast majority of our farmers in Stanislaus  
20 County are probably less than 200 acres on those  
21 operations. And, so, again, all family farms. And I  
22 just wanted to bring that up.

23 Also, I've been involved in the farm bureau for  
24 over 30 years. And I can't see any other single issue  
25 that has affected our region agriculturally than this

1 issue that we're talking about today.

2           So, with me today, I brought a couple of  
3 speakers with me. And they don't, neither one of them,  
4 probably need any introduction, but I will anyway.

5           To my far left is Bill Lyons, Jr. He is a  
6 third-generation farmer here locally in Modesto. He's a  
7 past president of the Stanislaus County Farm Bureau and  
8 also, as you know, former secretary of the California  
9 Department of Food and Ag.

10           Also with me today is, again, no need for  
11 introduction, but Paul Wenger, a Modesto grower, past  
12 president of the Stanislaus County Farm Bureau and also  
13 current president of the California Farm Bureau  
14 Federation.

15           So, I'm glad to have them with me today.

16           And, so, I think instead of me giving a lot of  
17 comments, I think -- first of all, I want to thank you so  
18 much for allowing farm bureau to have a 15-minute  
19 segment. I know this is late. I'm sorry that you have  
20 to listen to a lot of different testimony. I'm not going  
21 to go --

22           CHAIR MARCUS: It's great.

23           MR. ZIPSER: -- over anything that you've  
24 already heard before. So, I'm going to go ahead and turn  
25 it over to Paul, and to have him start the presentation

1 for the farm bureau.

2 CHAIR MARCUS: Terrific. And I do want to  
3 appreciate you and the other panelists understanding my  
4 desire to alternate with the public as opposed to having  
5 four hours of panels before the public could speak.  
6 Normally, I get complaints when I do that, and I haven't  
7 gotten a single one, and I appreciate that.

8 MR. WENGER: Welcome to Modesto. You've been  
9 here a lot, Felicia, and we appreciate it. When you were  
10 the Region 9 administrator, you and I walked a lot of  
11 fields here between -- in the early 90s, as you got an  
12 appreciation for agriculture here in Stanislaus County.

13 CHAIR MARCUS: You and DeeDee --

14 MR. WENGER: Yup.

15 CHAIR MARCUS: -- introduced me to agriculture  
16 in the 90s.

17 MR. WENGER: A lot of farms we walked and to  
18 see. And, so, I'll talk fast so that -- Bill certainly  
19 has a lot of points that he wants to get through. And  
20 you heard a lot of good, the comments, and the particular  
21 comments from TID, from the county, but I do want to  
22 maybe talk to the heart and soul of this area.

23 Grandpa came here in 1910. I still live on the  
24 same farm that he came to. He came here because of the  
25 Wood Colony area, Modesto, is because the soil, the

1 weather, and the water. And, interestingly, at the time,  
2 he thought a reservoir was really pretty stupid. Because  
3 if you dug a hole down 30 inches, you could see the water  
4 in the bottom of the hole when you dug a posthole.

5           But we know that the population in California  
6 in 1910 is much different than it is today. Folks had  
7 the foresight. But I can remember the stories of paying  
8 the bonds on retiring a debt. Of course, it didn't  
9 retire the debt until they got it to where it started  
10 generating power, and then they could go out and get  
11 bonds to be able to service a debt on that. But it was  
12 the City of San Francisco, the farmers and the ranchers  
13 in Modesto and Turlock that didn't have riparian water  
14 rights. You had to be in the district and you had to pay  
15 those bonds or they would take your land.

16           It's an irony that we're talking today about  
17 flows for a reservoir that, had those forefathers not  
18 created and foremothers and forebearers created that, we  
19 wouldn't be talking about anything today.

20           And it seems like folks say that if we didn't  
21 have reservoirs our rivers would run full all year.  
22 Well, I guess they don't realize the force of gravity,  
23 that it would go out very quickly and we'd have nothing  
24 left.

25           And I guess one of the greatest concerns is the

1 flows is one thing, but to carryover water for the cold  
2 water is a real concern because no government agency,  
3 there was a little bit of federal money for flood  
4 control, but beyond that, this was paid by individuals'  
5 money, and now somebody else wants that water.

6           It's really interesting that we talk about the  
7 decline of salmon, predation, habitat, flows, pollution,  
8 but we're overlooking the one major issue. Over a  
9 hundred years ago, if you were a farmer, you staked out a  
10 piece on the prairie, you farmed it until it was no  
11 longer fertile, and then you moved on. And you did the  
12 same thing again. And we know we can't do that any  
13 longer.

14           California agriculture defines sustainability.  
15 Everybody wants to define that word. Best California  
16 agriculture, we make our soils more productive, we  
17 produce more crop per drop, and we do it with the least  
18 amount of carbon than anybody else in the world can do.

19           It's very interesting, because some of the  
20 folks that were probably here today, as I heard them  
21 decry the crop protection materials we use and other  
22 things, and they probably buy organic, do they realize  
23 that their water footprint is greater? And we represent  
24 a lot of organic growers. It's a great and growing part,  
25 segment, of agriculture production today, but organic

1 production, it might get there to where it's as efficient  
2 with water as what conventional production is, but here  
3 we decry the use of crop protection materials and  
4 biotechnology, but that's what allows us to squeeze more  
5 crop per drop.

6           So, when you think about it, market hunting  
7 disappeared many, many decades ago. We almost killed out  
8 the bison, the elk, and the deer. And we did away with  
9 market hunting ducks. For up in the Sacramento valley  
10 for years, people would go and kill ducks and put them at  
11 the market. And we did away with market hunting, and yet  
12 we allow market fishing.

13           A lot of studies have been done by universities  
14 around the world, Stanford University one of them, that  
15 by 2050, we are very, very close that 90 percent of our  
16 fish species will have been harvested. And when you  
17 think about the indiscriminate mining and harvesting of  
18 our oceans, it's really kind of silly to be talking about  
19 what we're talking about here today. Because you're not  
20 going to have fish if we don't do something. And what is  
21 done is the new technology with the great big trollers in  
22 the way that, when you look at these studies, they say we  
23 have to go back to smaller boats, the way fishermen used  
24 to do it. And my hat is off to the fishermen because  
25 they are the farmers of the sea.

1           But some folks say it's important to catch, be  
2 able to go out and catch fish. And, as I like always  
3 like to say, there's 40 million Californians, if we all  
4 caught a fish every other week, how many fish would we  
5 have in California? Not much. It's a luxury item.

6           The other thing we forget, and as one  
7 individual said that he's reduced and reused water and  
8 everything, that's great, but there's one thing you can't  
9 change, and it takes 1,500 gallons of water to feed every  
10 one of us every day a 1,200-calorie diet; 1,200 calorie  
11 diet, 1,500 gallons of water. That water is going to  
12 come from some place.

13           We've heard people that say we shouldn't be  
14 growing almonds. Isn't it interesting when Japan  
15 suffered the earthquake and the terrible tsunami, what  
16 was it they did? They started calling California  
17 processors of almonds asking for almonds. And when  
18 people said, "Why are you wanting to buy almonds?" They  
19 said, "We need nonperishable protein."

20           As an almond grower, I'm proud of that.

21           When we talk about resiliency in the face of  
22 climate change, it is those of us here in California  
23 agriculture that will be able to show a way not only for  
24 the rest of the country but the world.

25           I've heard some things said that we're here

1 from Modesto, we have a lot of underprivileged area,  
2 we're uneducated. And, yet, I find it very interesting,  
3 and we've had some folks say we need to talk to people in  
4 the Bay Area, it was legislators mostly from the Bay Area  
5 and other places that passed a \$15 an hour minimum wage.  
6 When the University of California, Davis, Phil Martin did  
7 a study, in 2022 when the \$15 an hour minimum wage comes  
8 into effect, that will equate, based on the San  
9 Francisco, a \$15 an hour minimum wage in San Francisco  
10 will equate to \$6.71 in Modesto. So, since the minimum  
11 wage in Modesto would be \$15, that means a correlation to  
12 San Francisco, the minimum wage should be \$33.50 an hour.  
13 It's going to be \$15 an hour. So, do you wonder why  
14 there's a red ribbon of cars every morning going over the  
15 Bay Area and a red ribbon of cars coming back, driving by  
16 renewable power with windmills and solar fields just  
17 extruding all kinds of climate pollutants that we should  
18 be concerned about. But, yet, we do nothing about the  
19 fact that we have people that can't live and work in the  
20 Bay Area.

21           It's interesting, too, then we have folks that  
22 say that we ought to talk about -- and talk to people in  
23 the Bay Area. When some of the largest developments that  
24 have happened in agriculture in the many sensitive  
25 grounds here in Stanislaus County, their home address is

1 Sand Hill Road in Palo Alto.

2           Some of the people that are here are probably  
3 invested in pension funds or have their pensions invested  
4 in funds that are benefiting from things that the family  
5 farmers that were behind us here today would never have  
6 invested in. They would not have done that. And, yet,  
7 we are being the ones that are going to be have to carry  
8 the ball for that.

9           Ironically, you know, when you have those folks  
10 over there saying that we're not doing it right and, yet,  
11 I have one of my workers makes \$15 an hour, bought his  
12 first home this year. And he was living on the ranch for  
13 \$300 a month. And I said, "Why in the world are you  
14 buying a home?" And he said, "I wanted to live the  
15 American dream." He bought a home.

16           Some of these folks that were here from Palo  
17 Alto today, the median priced home is a million dollars.  
18 Good luck buying a home over there even if you're making  
19 \$150,000 a year.

20           Lastly, we've heard, "What can we do for the  
21 salmon?" Seven years ago, we went up with a -- a number  
22 of us went to up the Yakama Indians, the tribe in  
23 Washington, to see what some fish biologists were doing  
24 in mist incubation. They had been able to increase with  
25 mist incubation and flocculating the gravel bed and

1 reintroducing salmon in the eyed-egg stage into their  
2 native habitat. They've increased it by nine-fold, the  
3 out-migration of salmon. If you can increase the  
4 out-migration by nine-fold, you're probably going to  
5 increase the in-migration.

6 I met with John Laird, met with the  
7 administration. We said before Jerry Brown goes for his  
8 last and fourth reelection campaign, you could see of a  
9 three-year cycle of increased salmon. Nobody wanted to  
10 touch it.

11 So, if we're really going to have everything on  
12 the table, and isn't it interesting that PacifiCorp today  
13 has a mist incubation system in their possession in their  
14 shops in Northern California. Because if those Klamath  
15 dams have to be removed, they're going to utilize them to  
16 prove that dam removal does equal more fish. Why don't  
17 they do it before the dam removal? Because it's not  
18 going to accomplish their purposes.

19 So, lastly, I just want to say that, as we are  
20 here, this is the heart the soul, what we do here is  
21 family farms. We're proud of what we do. We will show  
22 the way for folks. We do want healthy environmental  
23 systems and rivers. We can do it. But, unfortunately,  
24 it's kind of like we hear about the commitment, the  
25 chicken and the pig, they're in the yard scratching

1 around, the chicken is scratching around for feed, and  
2 the pig says, "What are you doing?" It says, "I want to  
3 make sure that farmer John has the best eggs he can  
4 possibly have for his ham and cheese omelet. "How  
5 committed are you, Mr. Pig?," says farmer John's  
6 breakfast.

7 I think those of us in agriculture feel like  
8 the pig. When we say we're committed, it's going to come  
9 out of our hide. It's going to come out of our future,  
10 not only ours, our kids and our grandkids. And when you  
11 start looking about this SED, I hate to use puns, but  
12 I'll use it in this, I think it's kind of an egg.

13 Thank you.

14 (Applause)

15 CHAIR MARCUS: You know, it reminds me, though,  
16 there's a Chinese saying, "A chicken talking to a duck,"  
17 and it's when folks are talking past each other. And,  
18 that, I do see a lot here. And figuring out how to  
19 translate I think is the real challenge. Believe it or  
20 not, in all of these hearings, I'm seeing the space for  
21 compromise and agreement.

22 MR. WENGER: We do, but, you know, Chairman  
23 Marcus, with all due respect, there's been an awful lot  
24 of folks that have great ideas but they're not invested.

25 And it really upsets them that, you know what,

1 when you say that "It's going to be our future," it's  
2 going to be our ability to pay off our mortgages, it's  
3 going to be the Stanislaus County and Merced County and  
4 the property tax revenues that go to our police  
5 departments, our fire departments, our Sheriff's  
6 departments, our schools, our churches. We're the ones  
7 that are affected. And when you have people from out of  
8 the area say, "This is a great solution," then why don't  
9 you put your money on the table? Why don't you put your  
10 401(k), why don't you put your mortgage or your house,  
11 the equity in your home, and then I'll listen to you.

12 But when people are over here and they're  
13 outside of that, I mean, actions have to have  
14 consequences and other people's actions are unfortunately  
15 having undue consequences on us potentially. But we  
16 would love to visit with you.

17 CHAIR MARCUS: It's already on my list.

18 MR. LYONS: I was going to start off by asking  
19 about the Niners, but I think I'll go into my subject  
20 here.

21 CHAIR MARCUS: Hey, the Raiders are in the  
22 playoffs.

23 MR. LYONS: Yeah, I know.

24 CHAIR MARCUS: That's pretty awesome.

25 MR. LYONS: Our family has been in the area for

1 90 years. And we've farmed along both the Tuolumne, the  
2 Stanislaus, and the San Joaquin River. Our family is  
3 also known for its environmental and habitat restoration  
4 efforts, being recognized both at the state, national,  
5 and local levels.

6 We have an excellent working relationship with  
7 the Tuolumne River Trust, River Partners, U.S. Fish and  
8 Wildlife Service. And we truly believe that there are  
9 examples of government, the environment, and agriculture  
10 working together.

11 Now, as the former secretary of agriculture  
12 here today, I would like to voice my opposition to your  
13 staff's proposal of 40 percent flow requirements. The  
14 impact to this family farmer region of taking 40 percent  
15 would dramatically hit every one of those family farms.  
16 And this region is one of the most productive regions in  
17 the country.

18 If Merced, Stanislaus, and San Joaquin County  
19 were a state by themselves, they would rank within the  
20 top 15 states of the nation. So, what you're asking is  
21 you're asking a region that's one of the most productive  
22 regions in the country to provide or give up their  
23 40 percent of their water.

24 CHAIR MARCUS: It's actually --

25 MR. LYONS: Potentially.

1 CHAIR MARCUS: It will leave 40 percent in.  
2 It's still a big number, but it's not 40 percent off  
3 current.

4 MR. LYONS: Well, I haven't -- yeah, I would  
5 say 40 percent is a pretty healthy reduction.

6 CHAIR MARCUS: No. It's actually a smaller  
7 reduction, but it's still big.

8 MR. LYONS: Okay. I apologize for not saying  
9 it correctly.

10 CHAIR MARCUS: No. No. It's just some people  
11 think it's 40 percent off where people are now, and  
12 it's -- the proposal, I'm just saying, it's the  
13 proposal --

14 MR. LYONS: Okay.

15 CHAIR MARCUS: -- is --

16 MR. LYONS: The 40 percent appears to me --

17 MS. D'ADAMO: I'm sorry. I just want to jump  
18 in here.

19 Even according to staff, it's about 14 percent  
20 on average, but in critically dry years, I think  
21 38 percent. Correct?

22 MR. GROBER: That's correct. It would be 38 or  
23 40 percent, roughly, in the critically dry years.

24 MS. D'ADAMO: Okay.

25 CHAIR MARCUS: In critically dry years.

1           MR. LYONS:  So taking 40 percent -- excuse me  
2  38 percent -- appears to be neither reasonable or  
3  balanced, especially for family farmers.

4           This particular flow requirement, some people  
5  describe as a water grab.  I don't define it as a water  
6  grab.  I define it as a water takings by the state.  Yet,  
7  I see very little, if any mitigation, and no compensation  
8  to those communities that are the most affected.

9           One of the things as a former ag secretary, I  
10 sat in your seats in front of public, you know, meetings  
11 like this.  And one of the things that I've observed  
12 while sitting here yesterday and today is I observed  
13 public elected assemblymen and women, senators, county  
14 board of supervisors, city councils, irrigation district  
15 directors complaining about the process and the lack of  
16 outreach and the flawed science.

17          And, as a former public official, it really  
18 bothers me that you've got so many public officials  
19 complaining about the communication and outreach.  And I  
20 think that's a question.  And I don't want to preach to  
21 you, but as someone who used to be in an appointee,  
22 that's a question I think you have to really ask yourself  
23 and your staff why so many public elected officials have  
24 lost trust in this process.  I'm very pleased to see you  
25 now providing some of this outreach.  I do think there

1 are opportunities to work together in collaboration.

2 I just hope that these are just more than  
3 meetings, that they will be taken back, that staff will  
4 work with the experts from the irrigation districts and  
5 some of the other individuals that are stakeholders. I  
6 think you can come up with a fair and reasonable and  
7 balanced approach.

8 Thank you.

9 CHAIR MARCUS: Thank you very much.

10 MR. ZIPSER: Chair Marcus, that concludes our  
11 presentation.

12 CHAIR MARCUS: No, thank you very much, and  
13 thank you for coming and for your patience as well.

14 MS. D'ADAMO: I've just got one question, and I  
15 don't know who to pose it to, so just jump in.

16 I realize that, Wayne, you said that there's,  
17 on average, maybe your members about 200 acres on  
18 average, that if I look at, and I've been doing some  
19 research on this over a period of months, looking at  
20 Oakdale Irrigation District, South San Joaquin, Merced,  
21 et cetera, the average farm size in this territory that  
22 we're looking at is somewhere between about 20 acres and  
23 50 acres. So, obviously, there are some farms that are  
24 much larger, but that means that there are some farms  
25 that are much smaller.

1           So, could you speak to the issue of what do you  
2 do in situations where, you know, our staff is looking at  
3 averages. So, if it's a 14 percent reduction on average,  
4 but then if you look at the impact in certain year types,  
5 in wet years, there's virtually no impact at all, in  
6 critically dry years, as much as 38 percent. So, that  
7 would be a 38 percent hit in addition to the reduction  
8 that would already occur.

9           How do you manage in those situations small  
10 farm versus large farm? Is it about the same or is it  
11 more difficult --

12           CHAIR MARCUS: That's a good question.

13           MS. D'ADAMO: -- if you have a larger farm or a  
14 smaller farm?

15           MR. ZIPSER: I would say it would be about the  
16 same, because under -- the TID put out a statistic that  
17 said that in these last two years of the drought there  
18 would have been zero allocation of surface water  
19 deliveries. Well, there's a lot of farms out there that  
20 don't have the ability to pump water. And when you take  
21 into consideration SGMA and what the impacts that's going  
22 to do and you look at the possible -- of getting these  
23 critical dry years, there's a lot of farms out there that  
24 don't have alternatives and they would have to fallow or  
25 their permanent crops would wither and die and their

1 investments would go away.

2           And, so, there's a lot of other impacts at what  
3 happened from that. But there's no saying that the big  
4 farmer has the advantage over the small farmer because  
5 everyone's situation would be different.

6           MR. WENGER: The only difference is going to be  
7 if the -- last year, you know, with Jake being on the MID  
8 board, he said, "Dad, if we have a dry year, we're going  
9 to get six inches of water." They already knew that.  
10 Now, that's at a time when old Don Pedro hadn't even come  
11 out of the surface of the lake yet.

12           We went through six dry years between '88 and  
13 '93. The worst allotment we ever had was 24 inches and  
14 could you buy -- I think you were on there then,  
15 Bill -- you could buy additional water for additional  
16 elevated prices. But we weren't cut back all that -- I  
17 mean, we could -- have to buy extra.

18           But, here, with a shorter-term drought, we are  
19 going to be allotted six inches.

20           We had to drill two wells. Somebody that's got  
21 20 acres isn't going to be able to drill two wells. You  
22 know. We have 200 acres that we own, so we drilled two  
23 wells on our property, and then other ground that we  
24 lease, we could maybe move that water around.

25           If you've got 20 or 30 acres, there's no way

1 you're going to be able to drill a well. I mean, you  
2 can't even get it done because it's so long. So, the  
3 impacts are huge.

4 But what we have here in Stanislaus, Merced,  
5 and San Joaquin counties is very, very unique. The size  
6 of the farms compared to the rest of the state is  
7 generally smaller. And you have folks that can make a  
8 living, and maybe it's augmented by a teaching job or  
9 some other job, but it's very unique what we have here in  
10 these areas and it's because of the water.

11 MR. LYONS: Hi. I'd like to follow-up on  
12 Paul's comments. You know that the size of our farmers,  
13 the smaller farmers in our area would suffer under these  
14 regulations. And, you know, it's one thing where you may  
15 have a larger farming operation, that if they had to,  
16 they can maybe lay out some ground. Not that they'd want  
17 to, but they may be able to make some sacrifices.

18 If you've got 20 acres of almonds and you're a  
19 small farmer and someone says, "You're only going to get  
20 25 percent of your water and there's no other water  
21 available," you're done. You know. And, so, when people  
22 talk about, you know, large corporate farms, that's not  
23 the way it is here in Stanislaus, Merced, and San Joaquin  
24 County. Almost all primarily family farms.

25 MR. WENGER: And it really is that way around

1 the valley, but they've had to adapt.

2 CHAIR MARCUS: That's an important point.

3 MR. WENGER: A lot of families have had to  
4 vertically integrate and get larger. So, I mean,  
5 California agriculture is still a family-based  
6 agriculture.

7 CHAIR MARCUS: Thank you very much.

8 MR. LYONS: Thank you.

9 MR. WENGER: Thank you.

10 CHAIR MARCUS: I love the pride of multiple  
11 generations. It's really spectacular.

12 (Applause.)

13 CHAIR MARCUS: All right. I have Patrick  
14 Cavanaugh. We already had her. Paul Vermeulen, Ann  
15 Abruzzini. I have two. Ric Tilbury, Lee Ogle, Jake  
16 Verburg, Joyce Parker, Matthew Price, and Miguel Denoso.  
17 Patrick Cavanaugh, Paul Vermeulen.

18 MR. VERMEULEN: Good well, good morning.

19 CHAIR MARCUS: Morning. We keep saying that.

20 MR. CAVANAUGH: Oh, is it morning? Sorry. I  
21 wrote this at 8 o'clock --

22 CHAIR MARCUS: It's timeless.

23 MR. VERMEULEN: -- when I got here.

24 CHAIR MARCUS: Timeless.

25 MR. VERMEULEN: Let's see. My name is Paul

1 Vermeulen. I own Dunlap Almond Hulling in Modesto, and  
2 I'm a board member of the Stanislaus County Farm Bureau.  
3 Whew. This has got me nervous. Let's see.

4 I realize that I don't understand the entire  
5 scope of this proposal. Okay? So, I can only speak to  
6 its effects on me personally. I'm a young business  
7 owner. At 27, I bought our family's farming operation.  
8 That was now four years ago. I spent over a million  
9 dollars to do so. I didn't own a single acre of ground.

10 Our business is on Blue Gum Road. And I took  
11 over farming right in the driest periods that we'd ever  
12 seen since 1977. So, I took over in 2012. And, you  
13 know, I've learned the value of having a water supply.  
14 Since my crops dropped by 20 to 40 percent when the  
15 allocatements (sic) were curtailed down to even only  
16 16 inches. We're still coming back from that. And in  
17 order to achieve suitable crops, you know, I need about  
18 60 inches of water to be able to do that.

19 So, if this proposal was passed two years ago,  
20 I would have received zero water. That means that the  
21 very -- that only a year after I bought the family farm,  
22 I would have lost five generations, I'm the  
23 fifth-generation farmer, I would have lost five  
24 generations of family farming. We got here in 1905.

25 So, you know, the amount of -- I just listened

1 to your question about, "Well what's a large farm?  
2 What's a small farm?" I'm a large/small farmer. I farm  
3 over 200 acres. I don't own more than 20. And those are  
4 spread across 14 different ranches, so there's 14  
5 different, 10-, 28-, 30-acre ranches that I farm. And  
6 when they cut us back down to 16 inches, it was hard.  
7 Like I said, our crops went down by 20 to 40 percent  
8 because they're all permanent crops in almonds.

9           So, you know, I'll get back to it. You know,  
10 the very water rights that my family, the Blickenstaffs,  
11 the Millers, the Dunlaps, the Vermeulens, we all gave up  
12 land to allow these canal systems to bring water to this  
13 parched valley. And that's something that we hold dear,  
14 all the land that we've worked hard to maintain.

15           Ian Wilson said that no amount of  
16 sophistication is going to allow -- is go to allay the  
17 fact that all of your knowledge is about the past and all  
18 of your decision are about the future. And, so, I beg  
19 that you keep in mind our future.

20           CHAIR MARCUS: Thank you.

21           (Applause.)

22           CHAIR MARCUS: It's a great quote, too.

23           Ann Abruzzini, Ric Tilbury.

24           MR. TILBURY: I'm Ric Tilbury.

25           CHAIR MARCUS: Hi.

1           MR. TILBURY: I was wondering why the Calaveras  
2 and Mokelumne rivers haven't been asked to join into this  
3 water --

4           CHAIR MARCUS: They'll be in Phase 2 --

5           MR. TILBURY: -- robbery as I see it. They're  
6 closer to the cross-channel intake, and it would take  
7 less water from those watersheds to keep the salinity out  
8 of the Delta, whereas, these three rivers that you want  
9 to take water from are -- feed into the Delta through the  
10 San Joaquin River and are going to be dispersed before  
11 they really do any good. Not to mention --

12          CHAIR MARCUS: Yeah, the purpose here is not --

13          MR. TILBURY: -- all the things --

14          CHAIR MARCUS: -- largely for the Delta, it's  
15 for the tributaries themselves. Fine. I'm sorry. I  
16 don't mean to interrupt.

17          MR. TILBURY: The other thing was I guess that  
18 you wanted some suggestions for possibly repair of the  
19 systems that we have. And I've talked with a few people  
20 about a circumferential water system that would start at  
21 Shasta Dam and at about the thousand-foot elevation would  
22 have a pipeline that would be on the west side of the  
23 Sierras clear down to Bakersfield and then back up to  
24 approximately Mount Diablo, and then from Shasta Dam and  
25 the eastside of the coast range approximately to the Napa

1 Valley.

2           Everywhere that a river crossed that pipeline  
3 had about a 200-foot additional elevation. It would feed  
4 water into this pipeline. This pipe would operate at  
5 about an 85 PSI, and the water -- this water could be  
6 used in off-stream dam sites. They could either be 2-,  
7 or 300-feet deep that would continue to keep this water  
8 pressure the same. And then where irrigation districts  
9 took the water out, they could generate a positive amount  
10 of electricity from the reduction of that water pressure  
11 as it's used for irrigation. It's quite more complicated  
12 than that.

13           But the other thing I would like to bring up is  
14 how it seems as though this has been less than a  
15 democratic attempt at taking water from the area. And it  
16 seems like it's -- as we've had recently this electoral  
17 college discussion about how we elect people, it seems  
18 like the people in L.A. and San Francisco are able to  
19 vote whatever they want from our area. And I think that  
20 we should have a better voting system here, such as an  
21 electoral-college type of system, that allows us to  
22 actually have a voice in what goes on.

23           Thank you.

24           CHAIR MARCUS: Thank you.

25           (Applause.)

1 CHAIR MARCUS: Mr. Ogle, Mr. Verburg.

2 MR. VERBURG: My name is Jacob Verburg. I own  
3 Verburg and Son Dairy in west Modesto. I'm an immigrant  
4 from Holland. We had three generations of dairymen in  
5 Holland, and I am the third-generation dairyman in the  
6 United States.

7 I don't want this to sound personal, but I have  
8 a problem with your Board. All these people out here,  
9 including me and my 14 employees at my dairy, have a  
10 stake in this proposal of what you're doing. I don't  
11 think any of you Board members have a stake in what's  
12 going on here. You're not going to lose your house.  
13 You're not going to lose your farm. You're not going to  
14 lose your family.

15 (Applause.)

16 MR. VERBURG: And I don't feel, being in  
17 immigrant and knowing how important this country is to  
18 me, every function, I sing God Bless America. And if you  
19 want me to sing it now, I can do that. Okay?

20 But I just don't feel right that your Board is  
21 dictating to agriculture, our people, that you can take  
22 our water. I'm sorry. It's not going to happen. We're  
23 not going to roll over and play dead. We never have, and  
24 we sure as heck aren't going to start now.

25 Thank you.

1 (Applause.)

2 CHAIR MARCUS: Thank you. We don't expect  
3 that.

4 Ms. Parker, Mr. Price -- what? Ms. Parker?  
5 Oh, terrific.

6 Followed by Mr. Price, followed by Mr. Denoso  
7 or Denoso, I'm not totally sure.

8 MS. PARKER: You've heard from some very smart  
9 people here today, people who are heavily invested, whose  
10 roots go deep here. And you've heard from some lobbyists  
11 who drove a long ways to get here and tell you about the  
12 fish. Let me tell you, I love fish. I particularly love  
13 salmon grilled with capers.

14 Several people have already brought up the twin  
15 tunnels and the obvious effect on the Delta salinity and  
16 the Bay health. In fact, you've taken umbrage at the  
17 idea that this Phase 1 exercise is about replacing Delta  
18 water that would be siphoned off through those tunnels.

19 CHAIR MARCUS: My issue is only impugning our  
20 intent when you don't know us. That's not --

21 MS. PARKER: I am here impugning your intent.  
22 Do not be mistaken, I am impugning your intent.

23 If Stanislaus, Tuolumne, and Merced water is  
24 not needed to replace Sacramento River water currently  
25 going into the Delta, why not start out with those

1 tunnels? Build those tunnels now. Build additional  
2 water storage, as the California voters have authorized.  
3 Construct some desalination plants on the coast and for  
4 Southern California. Deal with the predator fish.  
5 Accomplish these things before turning the Central Valley  
6 into a desert. You need to reevaluate your phase  
7 sequence.

8 (Applause.)

9 CHAIR MARCUS: Mr. Price.

10 MR. DICKENS: Hello, Board. First off, I'm  
11 representing Matt Price. He was going to tell my  
12 story --

13 CHAIR MARCUS: Okay.

14 MR. DICKENS: -- for me.

15 CHAIR MARCUS: Oh, and now here you are.

16 MR. DICKENS: But now I'm here, so now I get  
17 to.

18 CHAIR MARCUS: Perfect. And you are?

19 MR. DICKENS: Matt Dickens.

20 CHAIR MARCUS: Okay.

21 MR. DICKENS: Background: I'm college  
22 educated. I have farmed this -- with my family this area  
23 in Stanislaus County, Oakdale and Modesto areas,  
24 Tuolumne, Stanislaus rivers most of my life. I now  
25 currently work for Modesto Irrigation District. I worked

1 for Oakdale Irrigation District as a ditchtender. When I  
2 was in junior college, I worked for S.P. Cramer &  
3 Associates, which is a fisheries consultant agency that  
4 was doing studies on the river.

5 I got firsthand experience on predation of the  
6 fish and what happened there. It's like paying with cash  
7 for something, you know, instead of whipping out your  
8 card, you pay cash money, it leaves your hands. When you  
9 see that impact of that fish and what was happening, it  
10 hits home. So being boots on the ground, in the trenches  
11 seeing what's going on firsthand, farming here peaches,  
12 walnuts, and almonds my whole life over, you know,  
13 300 acres with my family, raising beef cattle, seeing the  
14 impacts that this proposes, and what it impacts on here,  
15 having a document that's 15-inches tall, that's 3,500  
16 pages, that took you guys years to prepare, you need to  
17 listen to the education of the people here that are  
18 educated in this. Take the time to listen to them and  
19 educate yourselves from them also.

20 So, you have the time. Don't rush through this  
21 process. Take your time. If it takes longer, let it  
22 take longer. But take your time and study the facts and  
23 make your decision wisely off of that.

24 So, that's all I have to say.

25 CHAIR MARCUS: Thank you. Thank you.

1 (Applause.)

2 CHAIR MARCUS: Folks have been actually quite  
3 helpful the last few days, and we appreciate it and they  
4 have given us a lot to think about.

5 Mr. Denoso. Did I get that right? Denoso?

6 CHAIR MARCUS: I'm sorry. I just can't read  
7 the last letter.

8 MR. DENOSO: Mi nombre is Miguel Denoso.

9 (Speaking Spanish.)

10 CHAIR MARCUS: Do we have translation to help?

11 MR. DENOSO: (Speaking Spanish.) That mean, no  
12 water, no vegetable or fruit, no farmworkers, no harvest,  
13 no food. So, that mean we are people that work in the  
14 fields. (Speaking Spanish.) You're not -- almost  
15 nobody, very few people maybe, speak regard to the  
16 farmworkers. But without the farmworkers, no food.

17 And please revise your proposal. (Speaking  
18 Spanish.) A better water. (Speaking Spanish.) We need  
19 the water to survive. And, please, compared to what  
20 happened in L.A., in San Diego, they consume more water  
21 than our area. So, it's very contradicted. (Speaking  
22 Spanish.)

23 Gracias. Thank you.

24 CHAIR MARCUS: Gracias.

25 (Applause.)

1 CHAIR MARCUS: Next, we have the Yosemite Farm  
2 Credit Association. Fifteen minutes.

3 MR. VAN ELDEREN: Thank you.

4 CHAIR MARCUS: Thank you.

5 MR. VAN ELDEREN: You're welcome.

6 Good afternoon. My name is Leonard Van  
7 Elderen. I am president and CEO of Yosemite Farm Credit.  
8 And it was afternoon when I wrote this last time. It was  
9 morning when I wrote it two days ago. And, now, it's  
10 good evening to you. So, thank you for coming, you've  
11 heard that before, and we do appreciate that.

12 Yosemite Farm Credit is an ag lending  
13 cooperative, and our headquarters is in Turlock, which is  
14 located between the Tuolumne and Merced rivers. We serve  
15 four counties. We have \$2 billion in ag loans in  
16 Stanislaus and Merced counties, we also serve Mariposa  
17 and Tuolumne counties, for a total of \$2.4 billion in ag  
18 loans. Eighty-five percent of our loans are real estate  
19 loans. We have had lending relationships with our  
20 borrowers for generations. And we've had loans that can  
21 typically span 25 years.

22 As has already been stated, this is a family  
23 farming area. We're a local business. We are not a  
24 multistate or multinational company. However, our  
25 members borrow -- our member borrowers contribute

1 substantially to the state economy.

2           We serve ag employers, also known as farmers,  
3 ag related marketing businesses, and ag related  
4 processing businesses. We employ 135 people in six  
5 locations in these two counties. Our budget for 2017  
6 will be approximately \$30 million. And we contribute to  
7 the local economy.

8           I happen to be born and raised in southern  
9 San Joaquin County, in Ripon. I'm in the area served by  
10 South San Joaquin Irrigation District. And, so, we're  
11 very familiar with all three tributaries. We're very  
12 familiar with all five water districts involved. But  
13 we're geographically located within the five water  
14 districts that will be permanently impacted by the  
15 decisions that you make on unimpaired flow.

16           We finance employers, who rely on the water  
17 that comes down the Stanislaus, Tuolumne, and Merced  
18 rivers to operate their family business. We have skin in  
19 this area. We've got \$2 billion worth of skin in this  
20 area. And the purpose of this background is to give you  
21 a perspective. As you carry out your obligation to  
22 balance all of these interests, those interests that are  
23 beneficial and detrimental, economic and social, tangible  
24 and intangible considerations to attain the highest  
25 quality water, I'm here representing our 5,000 member

1 borrowers who are residents of Stanislaus and Merced  
2 counties. It's a great area, and it's home.

3           The State Water Resource Proposal put forward  
4 will drastically alter the momentum that ag has brought  
5 to this economy in our regions. While I say "momentum,"  
6 it's with the perspective that our two-county area still  
7 wrestles with 25 percent or plus -- plus or minus of the  
8 people living below the national poverty level.

9           I don't know if you saw in Merced when we were  
10 in Merced yesterday, but there was a man sleeping near  
11 the parking lot, wrapped in plastic, in the middle of a  
12 bunch of junk. It was one sign of the homeless thing  
13 that is going on in our area. And those issues are real  
14 for us.

15           This proposal will increase our risk as a local  
16 ag lender. So, what does that mean to the people in our  
17 area? The families that depend on ag for their income,  
18 including the employees, suppliers, and employers, cannot  
19 simply sit out farming during dry years and jump back in  
20 when there's water. Many of these employers own one  
21 parcel, and the previous panel discussed that, but they  
22 own one parcel and they rely on district water. They  
23 can't go out and just dig a new well, spend the money on  
24 that. The impact will be felt more by small-family  
25 employers.

1           In addition, our loans require monthly or  
2 annual installments. The investors that buy our bonds,  
3 which is where we get our money to lend, are not going to  
4 let us skip a payment in a dry or critically dry year.

5           Employers who produce milk do not have the  
6 option of simply shutting down like a factory. Cows need  
7 to be cared for each day. Dairies are required to have  
8 more acres, rather than less acres, or reduced acres due  
9 to potential fallowing situation.

10           Irrigated orchards that last 25 to 40 years  
11 cannot be dry farmed in the off years. Trees decrease in  
12 production and eventually die without water.

13           Reducing the water supply will also hurt  
14 supporting industries in the area, jobs for farm labor,  
15 feed companies, nurseries that grow trees, and labor at  
16 dairy and nut processing facilities will be negatively  
17 impacted. Our local economy is already challenged with  
18 higher unemployment.

19           In addition, and this is really maybe an area  
20 that we can bring a different perspective to, in  
21 addition, businesses that financially support farming in  
22 Stanislaus and Merced counties will need to reassess the  
23 risk of extending credit in an area that lacks a reliable  
24 source of water.

25           Our ag employers who hire people, buy seed,

1 equipment, and other inputs have a high risk in this  
2 business if they don't know if there will be enough water  
3 to finish the crop.

4 Higher risk, that is, a less reliable water  
5 source, will result in higher costs and less available  
6 capital for our employers. The laws of economics will  
7 mean higher interest rates for higher risk.

8 These are some of the direct impacts to the  
9 people that we finance. There are other impacts. The  
10 impacts that the models and assumptions show are not only  
11 things to consider in your decisions. I respect the  
12 effort of the SED analysis, but I don't agree with your  
13 conclusions.

14 I think there are also some of these  
15 detrimental economic and social, tangible and intangible  
16 considerations that lead to a different conclusion.

17 Without our current water supply, we'll see  
18 fourth- and fifth generation businesses, and you've heard  
19 from many of them today, shut down. Some of them will be  
20 in production. Some of them will be on Main Street that  
21 support the farmers and farming employers in our area.

22 Our young, smaller farmers are younger farmers  
23 and their employees are the most vulnerable. Again, back  
24 to the issue that they can't afford to just dig a new  
25 well. They can't afford to let all their ground lay

1 fallow for a year.

2           The effects of this SED will not be spread  
3 evenly over our area or equitably. On average, there  
4 will be 290,000 less acre-feet of surface water  
5 available. The assumption is that we'll be able to pump  
6 enough water or lay fallow acreage to make up for the  
7 loss.

8           In the critically dry years, the SED shows  
9 six-hundred-and-some-odd-thousand acre-feet less water  
10 available. These cutbacks will be primarily borne by ag  
11 and the employees directly and indirectly related to ag,  
12 along with fish during those years; but it's really going  
13 to hurt here.

14           Averages can be useful, but the models on this  
15 particular topic needs to be carefully reviewed,  
16 especially the dry and critically dry years. Think about  
17 the South San Joaquin and the OID presentation that you  
18 heard on Friday. Consider those lean years. Consider  
19 the fact that the droughts get spread over more years.  
20 Average reductions don't tell the full impact of these  
21 proposals.

22           Based on study, it looks like all requests for  
23 water can be met in wet years. The challenge is if we  
24 get dry and critically dry years, the loss for human  
25 benefit cannot be offset. A single year at higher

1 pumping levels could be very challenging, and two to four  
2 years back to back would be impossible.

3 With the SED requirements for cold water or  
4 storage, it appears there will be less flexibility to  
5 store water for the dry years.

6 With this type of downside risk on water  
7 availability, how can ag employers plan? The type of  
8 year, wet to critically dry, will not be well known until  
9 after crops need to be planted. Who will help those  
10 additional unemployed people? The local community at  
11 25 percent poverty level has little reserve.

12 In addition, as the farming acreage is reduced,  
13 the increased food costs will be borne by a growing group  
14 of unemployed citizens even less capable of buying the  
15 food.

16 Groundwater quality will also decrease in this  
17 area. This is true for those five districts. It's also  
18 true for those outside the water districts. These water  
19 basins do not track with the districts.

20 The reduced supplies for cities, counties, and  
21 their citizens in towns and out of town may drive a want  
22 to deepen existing wells or build more wells as part of  
23 the answer. However, we will not even be able to support  
24 the groundwater pumping we're doing today.

25 We have financed the deepening and digging of

1 wells. Neither of these two things guarantee you'll get  
2 quality or quantity of water that the study implies. We  
3 have people who have spent a quarter of a million dollars  
4 digging a well and ended up with no water, poor water  
5 quality, or lost wells due to the effects of subsidence,  
6 which is literally the twisting of a well casing. This  
7 deepening of existing wells or building more wells is not  
8 a solution.

9           Probably the most frustrating part is that we  
10 spent the past two years talking to our borrowers about  
11 pending changes in groundwater management as a result of  
12 SGMA. It's very likely that we'll be pumping less  
13 groundwater in Stanislaus and Merced County when SGMA is  
14 fully implemented. We're going to pump less water even  
15 before considering the unimpaired flow proposal.

16           Groundwater pumping is not a solution in an  
17 average year and certainly not in a critically dry year.  
18 On the one hand, the SED implies there is groundwater to  
19 pump to offset surface water that's no longer available.  
20 The SED studies say that if you remove surface water it  
21 can be replaced with necessary pumping. However, we need  
22 to put that next to the science used for the SGMA  
23 implementation. The new groundwater law would not have  
24 been approved by the governor if everyone thought that  
25 current pumping levels are at a sustainable level.

1           If we say pumping is the answer in critically  
2 dry years to replace the removal of 600,000 acre-feet of  
3 surface water, there has to be an assumption that our  
4 groundwater basins are currently sustainable.

5           I ask you as a Board to look at the science.  
6 It certainly appears that these two proposals, the SED  
7 and SGMA law, projections may not be in alignment. We're  
8 looking at the same three counties in both the unimpaired  
9 flow discussion and the groundwater discussion. And I  
10 just encourage you to have a look to make sure you're  
11 consistent.

12           In conclusion, the net result of less water for  
13 our region: Degraded groundwater quality. Groundwater  
14 quality in our area is already challenged. Removing  
15 14 percent of the clean surface water will reduce  
16 quantity and quality of recharge. More unemployed  
17 citizens as ag and related employers reduce or close down  
18 their businesses in Stanislaus and Merced county. There  
19 will be a higher cost to this state's taxpayers to  
20 support these newly unemployed people. Also, a reduction  
21 of income in our region due to decreased farmable acres.  
22 Our ag employers in this area need to own more acres in  
23 the wet years to withstand the substantial decrease of  
24 surface water in dry and critically dry years.

25           In addition, please consider what the employers

1 we finance have just faced. It includes new overtime  
2 rules, new minimum wage rules, pending new air quality  
3 regulations, groundwater milestones that are rapidly  
4 approaching. With this SED, they face even a greater  
5 reduction. Reducing the water supply will also hurt  
6 supporting industries. The reverberations of this water  
7 reduction will rumble through a struggling economy in our  
8 area.

9           For the sake of the economy of Stanislaus and  
10 Merced county, I would ask that you look for different  
11 solutions than the proposal in front of you. I would  
12 encourage you as a Board to collaborate with other boards  
13 in this area. This is like a merger, you're asking for a  
14 merger of resources. And that's something that needs to  
15 be taken care of at a board level. Consider the  
16 predatory issue. Consider the reaching out to irrigation  
17 districts who know these rivers and dams. Consider other  
18 measures available to you.

19           Please think about the area you are in today  
20 and the people that live here. Our local economy and  
21 society need a place on the scale as you make decisions  
22 that are fair and balanced.

23           Thank you for the opportunity to speak.

24           CHAIR MARCUS: Thank you very much.

25           (Applause.)

1 CHAIR MARCUS: Don't go yet.

2 MS. D'ADAMO: Just a second.

3 CHAIR MARCUS: Don't go yet.

4 MS. D'ADAMO: Just a second. Sir, I have a  
5 question for you, and I'm going to pose a hypothetical,  
6 and just do the best you can to answer it.

7 I really wish that our staff had analyzed the  
8 impacts with SGMA so this adjustment or this mitigation  
9 to groundwater pumping, in light of the fact that in  
10 20 years from now we're going to see a very different  
11 world.

12 MR. VAN ELDEREN: Yeah.

13 MS. D'ADAMO: We're also going to see just  
14 because of supplies tightening up anyway and the need for  
15 greater efficiency, we're probably going to see some  
16 challenges with groundwater recharge.

17 So rather than ask you to speculate what things  
18 would look like under SGMA implementation, which I hear  
19 in your testimony here that you've questioned the  
20 analysis, could you comment on your experience on the  
21 west side of Merced, Stanislaus, and perhaps, you know,  
22 even Fresno counties, I don't know if you go that far,  
23 but the experience that you've had with farms that you're  
24 involved with there -- where they have lost surface  
25 supplies and may have some groundwater or maybe not

1 groundwater? Could you comment on what you're seeing in  
2 other regions where there's been an impact on surface  
3 supplies?

4 MR. VAN ELDEREN: Well, we serve Stanislaus and  
5 Merced county, so I'll limit my comments that.

6 In our area on the west side where ground  
7 doesn't have as much water as it used to, or any water,  
8 or poor quality water, and that's the other thing that is  
9 starting to show up more, is that the quality of water is  
10 not good, we're starting to see some softening of values  
11 of those areas.

12 You're going to see some orchards that are no  
13 longer going to be orchards. You're going to see some of  
14 those trees go out permanently. And while some may think  
15 that's a good thing, that's not necessarily what we're  
16 here for.

17 I think that on the west side the challenge has  
18 always been water. It used to be -- I've been in this  
19 for 35 years. It used to be when you looked at a hundred  
20 acres on the west side you figure that you might farm 60  
21 of it. And that's -- we may be coming back to that. The  
22 problem is that we may be coming back to that in the  
23 heart of this area in the heart of good water. I think  
24 that the SGMA is the thing that really is going to be a  
25 fundamental change for this area. It already is starting

1 with the laws that are in place.

2 MS. D'ADAMO: All right. Thank you.

3 MR. VAN ELDEREN: Yeah.

4 CHAIR MARCUS: Thank you.

5 Julianne Phillips.

6 Hi.

7 MS. PHILLIPS: Thank you, Chair Marcus, and  
8 members of the Board.

9 My name is Julianne Phillips. And often when I  
10 appear before you it's representing an organization, but  
11 today I'm just Jules. And I'm here as a resident of the  
12 City of Modesto, a proud member of this community, and a  
13 consumer all of the wonderful things we grow here.

14 I often think that people's back stories are  
15 the most interesting thing about what drives them to do  
16 what they do. And you might wonder what inspires a  
17 person to get up every day and fight the fights that  
18 people tell them that are going to be an uphill battle,  
19 they've already been decided, and not in their favor.  
20 And that's because I grew up here in Modesto. I lived on  
21 a cul-de-sac in north Modesto. And if my mother had it  
22 her way, I never would have seen a farm. But,  
23 fortunately, her other half, my dad, his business was in  
24 Patterson. And I have so many wonderful memories driving  
25 out there with him. And he always took the time to point

1 out the dairies, the alfalfa, the apricots, the almonds.  
2 And, of course, I fell in love with the cows, and there  
3 was nothing more that I wanted than my own cow.

4           So, unfortunately, because of zoning  
5 restrictions, although, I think my mother was even worse  
6 than those were, he had to be a little creative, and he  
7 built me this cow. Her name is Mini, and I've had her  
8 since she was taller than I was. Yeah.

9           And that's what this community is. This  
10 community shows you that even if you grow up on a  
11 cul-de-sac you have such a deep appreciation for what  
12 agriculture means for us and for this community that it  
13 really is instilled in the heart of everything that we  
14 do. And that's what inspires me every day.

15           And, you know, for a lot of people the Central  
16 Valley doesn't really have -- it's a place. It doesn't  
17 have an identity. But, for me, it's never been a place  
18 and it's never been a sign on a road and it's never been  
19 a statistic, like you've heard today, it's a feeling.  
20 It's home. And it's home not only for me, but it's home  
21 for my family. I have three -- I have two nephews and a  
22 niece now, they're growing up here.

23           And I would say that the best thing about this  
24 is that, not being a grower myself, but using the  
25 Tuolumne River for my drinking water, I have been able to

1 understand the frustration of the growers I represent on  
2 a very real and personal level, that, "This is my  
3 drinking water. This is my ability to water my lawn.  
4 This affects my neighbors. This affects all of us."

5 And, so, I strongly urge you to work more  
6 closely with the districts, find better solutions, so  
7 that we can keep our community and keep that feeling of  
8 home for all of us who live here.

9 Thank you.

10 CHAIR MARCUS: Thank you very much.

11 (Applause.)

12 CHAIR MARCUS: You folks have done a very good  
13 job of humanizing the issue for us.

14 Modesto Irrigation District.  
15 Forty-five minutes.

16 Thank you so much, as the host, for holding  
17 back and letting so many of the public speak. We really  
18 appreciate it.

19 Do folks need another break?

20 MS. D'ADAMO SPEAKER: No, I'm stretching.

21 CHAIR MARCUS: Okay. You may stretch.

22 MS. DODUC: I can't sit for 45 minutes.

23 CHAIR MARCUS: No, you can't sit that long, I  
24 know. Sorry. I can sit for days. I apologize.

25 Hello.

1 MR. SALYER: Oh, can we go ahead and get  
2 started?

3 CHAIR MARCUS: Please. You may, yes.

4 MR. SALYER: Good evening, Madam Chair Marcus,  
5 and --

6 CHAIR MARCUS: Good to see you.

7 MR. SALYER: -- rest of the Board.

8 Myself and our panelists, we want to thank you  
9 so much for the opportunity to address you tonight and  
10 also for you coming to Modesto. I know it's been a long  
11 day.

12 CHAIR MARCUS: But a good day.

13 MR. SALYER: And we appreciate your patience  
14 and we also appreciate everybody that showed up at this  
15 hearing and voiced their opinion.

16 My name is Greg Salyer and I'm the General  
17 Manager for the Modesto Irrigation District.

18 I would like to go ahead and introduce our  
19 panelists. Here, on my right, I have John Davids. He's  
20 our Assistant General Manager of Water Operations. On my  
21 left, I have Ronda Lucas. She's our General Counsel.  
22 And next to her, I have Jake Wenger, who is our Board of  
23 Director.

24 Each panelist will be participating today.

25 As a follow up, we will have written comment

1 that we'll be submitting, pretty extensive comments.

2 We're the fifth irrigation district that you've  
3 heard talk. There's been a lot of good information  
4 provided. I think we mirror a lot of their comments and  
5 a lot of their input and a lot of impacts that they had,  
6 we agree with those.

7 Just to give you a little bit of background on  
8 the Modesto Irrigation District, we are a fully  
9 integrated utility, publicly owned, been in the business  
10 well over a hundred years, like Turlock. They say  
11 they're the oldest irrigation district, we're the second  
12 oldest by a day later.

13 CHAIR MARCUS: It's really just a day?

14 MR. SALYER: Yes.

15 CHAIR MARCUS: Congratulations to you both.

16 MR. SALYER: Thanks. Yeah.

17 We have 3,100 irrigation customers, and we  
18 irrigate approximately 60,000 acres. We're also the  
19 electric utility. We have 117,000 electric customers, a  
20 peak load of about 670-some megawatts, including part of  
21 that is our hydro. We also provide safe and reliable  
22 drinking water to the City of Modesto. You heard from  
23 them today. And as you heard from them, they provide  
24 water to over 250,000 residents and 6,000 businesses.

25 You've heard from many of the speakers today

1 about the impact of this Bay-Delta Water Quality Plan  
2 and the SED, and we mirror that. It definitely has a  
3 direct impact to our water operations and our electric  
4 operations, and it would devastate the livelihood of a  
5 lot of our customers. You heard that today.

6           You also heard from the Turlock Irrigation  
7 District. We own a third of that project and Turlock  
8 owns two-thirds of it. And that includes the dam and the  
9 reservoir and the powerhouse, a 200-megawatt powerhouse.

10           You also heard about the extensive studies that  
11 were done on that as part of the FERC relicensing and all  
12 the modeling that has been done. We were part of that,  
13 too, that effort. That project is very valuable to us.  
14 It supports approximately \$4.1 billion in output, more  
15 than \$730 million in labor income, and close to 19,000  
16 jobs a year.

17           As you heard throughout the day, surface water  
18 is critical to this area, it's critical to this  
19 irrigation district. And not just agriculture; it's  
20 critical to our urban homes, it's critical to our  
21 churches, to the schools that you heard from today, our  
22 businesses, and our industry.

23           You didn't hear today, but I heard from some of  
24 the other irrigation districts, that under this SED  
25 proposal, that during wet years, it's not too bad, but

1 it's when you get into the drought. And there's times  
2 when things collapse for us, and we would not be able to  
3 provide surface water to our customers.

4 We took a look at 2015, for example. And, on  
5 2015, under the conditions right now as you heard today,  
6 we had to cut our deliveries by 60 percent. So, with  
7 40 percent of deliveries that we delivered, a good  
8 portion of that was made up with groundwater. So, we  
9 were already impacted, and that was without this SED in  
10 place.

11 So, we looked at what happens if this SED was  
12 in place. Well, first off, we would have a loss of about  
13 \$1.6 billion in economic output, about 167,000 million in  
14 farm gate revenue, and a loss of 6,500 jobs. Basically,  
15 we would provide almost no surface water to our customers  
16 under that condition.

17 And, as you heard earlier today, a lot of our  
18 farming is permanent crops. And with permanent crops,  
19 when you don't have the water to give them, if they don't  
20 have their own wells with the capacity needed to keep  
21 those trees alive, those trees will die, and that would  
22 be a huge impact.

23 Putting numbers aside, I think you heard  
24 throughout the day about, with this proposal, it will  
25 definitely have a huge impact on groundwater

1 sustainability, impact our drinking water quality and  
2 quantity, also impacts our hydroelectric economics and  
3 operability.

4 I think you heard earlier, and it's true, we're  
5 a third of that project, and we rely on Don Pedro. And,  
6 in the summer, it's very valuable for us for operations.  
7 And under this SED, a lot of the operation would have to  
8 be shifted to spring when it's not nearly as valuable.

9 We also heard a few speakers talk about the  
10 quote from your staff that this will have a significant  
11 and unavoidable impacts. And that's definitely one thing  
12 we can all agree upon.

13 I also agree with the comment that Les Grober  
14 made on the October 18th County Board of Supervisors  
15 meeting where he said, "There are smarter ways to do this  
16 with less water supply impact." And we strongly agree  
17 with that.

18 As you heard from Turlock Irrigation District,  
19 we have done extensive studies. We think there are a lot  
20 better methods to be able to provide for the fish. We  
21 think there's sound science and practical solutions to  
22 achieve the goals for fish and water quality.

23 So, what we're going to do today when I turn  
24 over to the rest of staff is try to communicate some of  
25 these things. You will hear today problems, as well as

1 solutions.

2           So, with that, I'm going to go ahead and turn  
3 it over first to speaker John Davids, again, our AGM of  
4 water operations.

5           MR. DAVIDS: Well, thank you for that, Greg.

6           And good evening, Chairperson Marcus, and  
7 fellow Board members.

8           CHAIR MARCUS: Good evening.

9           MR. DAVIDS: I think you're going to hear some  
10 common themes in what I have to say. But, also, I hope  
11 there's going to be some clarification with respect to  
12 comments that you heard earlier in the day, specifically,  
13 with respect to our relationship with the City of  
14 Modesto, and also groundwater within the Modesto  
15 Subbasin. In addition, I'll try to introduce some new  
16 thoughts. I'll tell our story from an operational  
17 perspective. And then one person -- one thing I can  
18 guarantee that I won't do, is I won't talk about 1,100  
19 fish. Okay? So, we won't go there.

20           CHAIR MARCUS: Thank you. Thank you so much.

21           MR. DAVIDS: So, as Greg mentioned, my name is  
22 John Davids, and I'm the Assistant General Manager of  
23 Water Operations for Modesto Irrigation District.

24           As you can tell from today's turnout in both  
25 the Stockton and Merced hearings, our region is united.

1 We are focused and we are passionate about our history,  
2 our resources, and our future.

3 As AGM water operations for the second oldest  
4 irrigation district in the State of California, I have  
5 the honor of working with some of the most dedicated and  
6 passionate water professionals in the industry, many of  
7 whom have stuck around into the evening to hear this wrap  
8 up.

9 Together, we're responsible for the delivery of  
10 irrigation water to over 60,000 irrigated acres and the  
11 wholesale delivery of safe, reliable drinking water to  
12 250,000 residents and 6,000 businesses.

13 As a resource manager, my comments will focus  
14 on the very practical impacts posed by implementation of  
15 the SED, specifically, impacts on reservoir operations,  
16 surface water supply, and groundwater.

17 So, with respect to reservoir operations, I'll  
18 let our story begin in 1971 when the construction of the  
19 New Don Pedro Reservoir was completed. Unlike other  
20 reservoirs in the state, and reflecting the importance of  
21 maintaining local control, the City and County of San  
22 Francisco, TID and MID financed nearly 90 percent of the  
23 total project cost. As constructed, New Don Pedro  
24 Reservoir has a maximum capacity of approximately 2  
25 million acre-feet and, on average, the watershed yields

1 about the same volume. MID's founders were visionaries,  
2 they were courageous, they were pioneers, and they  
3 believed in bring the collective dreams of a region to a  
4 reality without government handouts.

5 As documented in our centennial book, *The*  
6 *Greening of Paradise Valley*, recreation in New Don Pedro  
7 Reservoir was always considered frosting on the cake.  
8 Today, we unequivocally know its significance beyond  
9 simply water supply.

10 As California's sixth largest reservoir with a  
11 surface area of 13,000 acres and 160 miles of shoreline,  
12 New Don Pedro Reservoir has served as a recreational  
13 destination for over 40 years. So far in 2016, we've  
14 seen nearly 200,000 visitor days in New Don Pedro  
15 Reservoir. This represents a 35 percent increase over  
16 2015 when the recent drought was at its peak and New Don  
17 Pedro Reservoir was nearing historic low.

18 With this low, we saw boat ramps out of the  
19 water, hundreds of feet of mud between campgrounds and  
20 the shoreline, along with dozens of exposed boating  
21 hazards. As a result, many of our region's citizens were  
22 left without an affordable local recreational  
23 destination, and many of the mom-and-pop foothill  
24 businesses were left clinging for survival.

25 Considering the fact that approximately

1 1.8 million acres of the SED's plan area is home to  
2 disadvantaged or severely disadvantaged residents with  
3 nearly the entire foothill population being severely  
4 disadvantaged, the impacts of your plan can only worsen  
5 economic conditions for an already struggling community.

6           Your staff's determination in Chapter 10 of the  
7 SED that there will be no physical deterioration nor  
8 reduction in the use of existing recreational facilities  
9 at lower lake levels because some boat ramps in New Don  
10 Pedro Reservoir are still operable at minimum reservoir  
11 elevations is wrong. There will be a significant  
12 reduction in the use of existing recreational facilities  
13 under what is proposed in the SED. This isn't hypothesis  
14 or a scare tactic. This is the harsh reality, one that  
15 we lived through in 2014 and 2015, and one that will grow  
16 in frequency and magnitude under your proposed  
17 alternatives.

18           Lastly, with respect to reservoir operations,  
19 your staff has included minimum reservoir carryover  
20 storage targets to help ensure implementation of the flow  
21 objectives with management by a yet-to-be defined STM  
22 Working Group.

23           So, recall moments ago when I noted that the  
24 City and County of San Francisco, TID and MID, financed  
25 nearly 90 percent of the total project cost for the

1 construction of New Don Pedro Reservoir. For many us in  
2 this community and in this room, it's unimaginable that  
3 the state would propose to undermine the vision, courage,  
4 and determination of our predecessors.

5           From a practical perspective, these limitations  
6 will hamstring my operational flexibility as a local  
7 water manager, especially in sequential dry and  
8 critically dry years. This isn't a game for us. It's a  
9 science predicated on a solid understanding of the  
10 watershed and over a hundred years of making the tough  
11 decisions that must be made to succeed. We aren't  
12 shortsighted in our annual decisions. We balance the  
13 resources with the needs of our customers, our community,  
14 and the environment both in the near term and the long  
15 term.

16           So, today, on the heels of the worst drought in  
17 recent time, New Don Pedro Reservoir sits at 73 percent  
18 of capacity. We get responsible sustainable water  
19 management. We use the best available science, we plan  
20 for the future, and our successes are evident. To  
21 propose the managing of the system through the STM  
22 Working Group with an unknown set of goals and  
23 responsibilities is irresponsible and will be  
24 catastrophic to our region, our state, and beyond.

25           So, shifting from reservoir operations to water

1 supply and establish a little bit of context for my  
2 comments, I think it's important to first understand a  
3 few basics. So, my use service area covers approximately  
4 180 square miles and over half the irrigated acreage is  
5 in permanent crops. Today, approximately 75 percent of  
6 MID's cropland is irrigated with flood irrigation, with a  
7 remainder in, quote, unquote, high efficiency irrigation,  
8 drip micro-irrigation systems.

9 In addition to our agricultural customers, we  
10 also provide safe and reliable drinking water at a  
11 wholesale price to the City of Modesto for its citizens  
12 and businesses.

13 MID's customers, ag and urban alike, have  
14 historically enjoyed a very reliable water supply. But  
15 let me be clear that there's parody between our ag and  
16 urban customers, both from a price and a water supply  
17 perspective.

18 In a December 12th, 2016, technical workshop,  
19 your staff noted that with respect to the calculations  
20 performed in the SED, the City of Modesto has had their  
21 supply held constant at 30,000 acre-feet. So, neglecting  
22 the nearly 10 percent difference relative to the true  
23 full allocation of 33,602 acre-feet, the City of  
24 Modesto's surface water isn't constant from year to year,  
25 but instead it fluctuates according to MID's

1 determination of available water on an annual basis.

2           In 2015, when MID's available water supply was  
3 a mere 40 percent of normal, the City of Modesto was  
4 allocated just 13,000 acre-feet of safe, reliable  
5 drinking water off the Tuolumne River, less than half of  
6 what your staff has assumed for the purposes of the  
7 impact analysis in the SED.

8           So, from MID, this isn't an ag versus urban  
9 fight. Any reduction in available surface water will  
10 have equally significant and unavoided (sic) water supply  
11 impacts to both our ag and urban customers.

12           Rather than staining water deliveries to both  
13 our ag and urban customers and nearly nine out of ten  
14 years, implementation of the SED will result in shortage  
15 to all of MID's customers one-third of the time, with  
16 annual shortages peaking at at least 20 inches per acre  
17 over 150,000 acre-feet. So, with that average annual  
18 divergence of approximately 300,000 acre-feet, this  
19 amounts to half of our annual supply.

20           Let me be clear that movement to  
21 high-efficiency, on-farm irrigation systems cannot  
22 mitigate the impacts of these shortages. This isn't  
23 something that we can conserve our way out of.

24           Mr. Grober, at the December 12th, 2016,  
25 technical workshop, noted that a move to high-efficiency

1 irrigation systems results in decreased groundwater  
2 recharge and that this is, in his opinion, an interesting  
3 problem. From a local perspective, the problem isn't  
4 just interesting, it's real.

5           Your staff's reliance on the differential and  
6 applied water between flood irrigation and the  
7 high-efficiency irrigation systems is not supported. The  
8 differential, in fact, is minimal at best. What we do  
9 know is that there's more consumptive use by the crops  
10 irrigated with high-efficiency irrigation systems, which  
11 equates to hire yields, but that means that less water  
12 moves beyond the root zone as deep percolation.

13           The current SED proposal would make our ability  
14 to ensure sustainable groundwater for the future  
15 generations an impossible feat. Your proposal would  
16 inevitably result in our citizens and businesses not  
17 having a safe, reliable source of water, and would  
18 further endanger the listed terrestrial species that rely  
19 on the agricultural lands and wetlands for their  
20 survival.

21           As you all know, the Modesto Subbasin is one of  
22 the two subbasins within the San Joaquin Valley not  
23 determined to be in a condition of critical overdraft.  
24 And you heard some of that today. This isn't by  
25 accident. Reliable surface water supply's effective

1 conjunctive use and cooperative agreements with other  
2 local agencies within the Modesto Subbasin have achieved  
3 sustainable groundwater management well before  
4 sustainable groundwater management came into fashion.

5           As local water managers, we understand the  
6 importance of the health of our groundwater aquifers, our  
7 backup source in drought times. Our management decisions  
8 over the past 100 years provided us with the insurance  
9 policy that helped use weather the 2014 and 2015 drought.

10           Since 1994, MID has delivered nearly 700,000  
11 acre-feet of safe, reliable drinking water to the City of  
12 Modesto, which would have otherwise come from our local  
13 aquifers.

14           So, through this partnership, we've  
15 significantly reduced their once sole reliance on  
16 groundwater.

17           The response to our aquifers is remarkable. A  
18 significant cone of depression beneath the City of  
19 Modesto has substantially recovered. Instead of losing  
20 water near the city along the Tuolumne River, the  
21 Tuolumne River is once again a gaining waterway, and  
22 groundwater quality continues to improve. This is  
23 success predicated on opportunity. Opportunity to solve  
24 local problems with local resources for local benefit.  
25 For your staff in the SED to cast the impacts to

1 groundwater as speculative is disingenuous.

2           As MID's water manager, I can tell you without  
3 a doubt that to make up for surface water shortages  
4 forecasted in the SED, MID and its customers alone would  
5 have had to have pumped an additional 1 million acre-feet  
6 of groundwater from 1971 through 2012. During the worst  
7 years, and assuming the speculative existence of even the  
8 necessary infrastructure to pump that water, groundwater  
9 pumping would reach as high as 150,000 acre-feet.

10           So, one thing I hope we can agree on is the  
11 sheer magnitude of these numbers. And, contrary to the  
12 calculations presented in the SED, this results in a  
13 negative change in groundwater storage. Simply put, this  
14 is not sustainable and violates the Sustainable  
15 Groundwater Management Act, which affirms this state's  
16 policy that groundwater resources must be managed  
17 sustainably for the long-term reliability, multiple  
18 economic social and environmental benefits for current  
19 and future beneficial uses.

20           SGMA was constructed around the premise that  
21 locals know best how to solve local problems with local  
22 resources. And, again, you've heard that in this  
23 subbasin there's proof positive that this paradigm works  
24 and it works well.

25           As a father and marriage counselor, coach,

1 mentor, financial advisor, confidant, and friend to the  
2 80 employees that I manage on a daily basis, I understand  
3 opportunity.

4           What you have presented within the context of  
5 the SED robs this region of our opportunity to  
6 sustainably manage our collective fate into the future as  
7 we have done since our forefathers transformed an  
8 otherwise arid landscape.

9           To describe the impacts of your proposed  
10 actions as significant and unavoidable is unnecessary by  
11 our standards.

12           As you can see from today's attendance, what's  
13 left of it, this region stands united, we stand firm, and  
14 we won't endanger the future of our generations to come.  
15 We are more than willing to work with you on a solution  
16 that benefits the fish and the environment while allowing  
17 our communities to prosper. We are the day-to-day  
18 operational decision-makers and the experts on our  
19 rivers. No one is more invested in preserving them for  
20 the future than we are. We are absolutely committed to  
21 improving the health in native fisheries and at Tuolumne  
22 and San Joaquin rivers. We, as a region, are poised to  
23 do just that, and we intend to do it on terms founded on  
24 the principles of sound science.

25           We look forwards to durable solutions that

1 ensure our long-term sustainability, economic viability,  
2 and health of an otherwise underprivileged,  
3 disadvantaged, and economically distressed area.

4 CHAIR MARCUS: Thank you.

5 MR. DAVIDS: Thank you.

6 (Applause.)

7 MR. MOORE: Thank you very much. Before you  
8 get started --

9 Thank you, Mr. Davids, and, clearly, we respect  
10 the long heritage here and your diligent efforts and your  
11 statement of the goals for water resources management  
12 that are broad and diverse, and we appreciate that  
13 commitment.

14 You did state in pretty firm uncertain terms in  
15 your remarks just now that "Flood irrigation works and we  
16 shouldn't mess with it. We figured it out. This is how  
17 we manage our basin." Well, I talked to folks in Israel  
18 and I asked them about this area of our state and what  
19 they think. Because, you probably know this, but, in  
20 Israel, it's not legal to flood irrigate. You actually  
21 go to jail. And it's a different culture --

22 MR. DAVIDS: Sure.

23 MR. MOORE: -- a different setting and all  
24 that. So, I asked them, "Well, what would I tell my  
25 colleagues, you know, in this part of our state?" You

1 know, "What are the compelling reasons to move to high  
2 efficiency?" And I think you know the list, but you  
3 prevent migration of salts and pollutants to the  
4 groundwater, and you help solve water quality problems,  
5 you pump less groundwater, which causes greenhouse gas  
6 emissions and energy use and that sort of thing.

7           So, if we take a step back, there may be  
8 opportunities for high-efficiency irrigation that we  
9 haven't collectively explored and completely thought  
10 through. And I was wondering if, you know, there's an  
11 open door there do you think to be able to solve some  
12 problems?

13           MR. DAVIDS: Absolutely. I think that we're,  
14 you know, as a district, we're focused on being as  
15 progressive as we can. So, we're always open to that.  
16 But, again, you know, I think it can't be overstated  
17 within the context of today's discussion that the fact  
18 that the Modesto Subbasin along with the Turlock  
19 groundwater basin is in a condition that it is, based, at  
20 least, on the past of flood irrigation and the migration  
21 of water through the root zone and through the soil  
22 profile for the benefit of the aquifer.

23           So, are we open to that? Yes. But I also want  
24 to be cognizant of our future with respect to SGMA and  
25 this region's commitment to comply with SGMA. But,

1 absolutely.

2 MR. WENGER: And I would like to touch on that,  
3 too, a little bit, as a farmer in the area who  
4 predominantly flood irrigates.

5 I think, first off, with all due respect, if  
6 you're looking for expertise in farming in the Central  
7 Valley, Israel might not be the place to go. You might  
8 want to talk to the Central Valley farmers.

9 (Applause.)

10 MR. WENGER: So I'm glad you're here to do  
11 that.

12 (Applause.)

13 MR. MOORE: Of course.

14 MR. WENGER: But there's always things to learn  
15 and we like to look at other countries and nations. I  
16 know Australia became popular as one to look at during  
17 their millennium drought and things they did. And I know  
18 that from a lot of tours that have gone on that really  
19 Australia has gotten up to speed with what California was  
20 doing 20 years ago.

21 CHAIR MARCUS: Yeah, that's true on a lot of  
22 things.

23 MR. WENGER: On a lot of things.

24 CHAIR MARCUS: They've done -- some things are  
25 ahead, but I agree, they were catching up with us fast in

1 a crisis.

2 MR. WENGER: Yeah. For a lot of it, for the  
3 most part, it was overstated that we needed to take some  
4 lessons from Australia.

5 And I think you have some valid points when it  
6 comes to water use efficiency, but, at the same time,  
7 part of the problem when it comes to determining best  
8 usage for irrigation in any region is also dictated by  
9 temperature and climate, it's dictated by soil types, and  
10 it can vary from --

11 CHAIR MARCUS: Right.

12 MR. WENGER: -- one place on one side of the  
13 street to your neighbor's place on the opposite side of  
14 the street. And you might have a ten-acre block with  
15 various soil types. The ground at my house where I live,  
16 if I tilled (phonetic) peas, you're going to get stuck if  
17 you try and drive it. It's just very clay, very heavy  
18 soil.

19 I've got another ranch that I can irrigate, and  
20 these are both flood irrigation, I can irrigate it, put  
21 water on it at 11 o'clock at night. I finish a check in  
22 three hours. I come back at 6:00 in the morning,  
23 switching another check, there's no standing water left  
24 in the field. It's gone.

25 And the advantage to that, with flood

1 irrigation on those sandy soils, is you do see  
2 significant groundwater recharge. And, in our irrigation  
3 district, we do like to brag that we do have sandy loam  
4 soils in a large part of the Modesto irrigation district.

5           And it goes back to some of the things you  
6 folks heard earlier about what are the two subbasins in  
7 the Central Valley that are not listed in critical  
8 overdraft. Well, they're two of the irrigation subbasins  
9 involve two of the oldest irrigation districts that have  
10 had very good surface water supplies, that have not had  
11 to rely on groundwater and are primarily flood  
12 irrigation.

13           So, it does stand to reason that flood  
14 irrigation does have its place if it's located in the  
15 right climates, the right regions, and the right soil  
16 types.

17           MS. D'ADAMO: I got to jump in here. I  
18 couldn't agree more. There's no one size fits all. I  
19 think, in Merced, they don't -- they have quite a few  
20 canals that are unlined. And, then, in other regions,  
21 you're looking at efficiency measures by lining canals.  
22 And I agree with the comment made about, you know, the  
23 irrigated lands and movement of salts.

24           One of the exciting things about settlement is  
25 that we can look at this in -- all of these issues from a

1 holistic perspective. And, from what I understand, part  
2 of the settlement discussions do include discussions  
3 about groundwater recharge and targeted recharge. So  
4 that we can --

5 CHAIR MARCUS: Targeted recharge, yeah.

6 MS. D'ADAMO: -- really move in maybe a smarter  
7 way at recharging the groundwater basins where it makes  
8 the most sense.

9 MR. WENGER: Absolutely. And I guess I'll just  
10 keep going since I'm next up.

11 CHAIR MARCUS: Yeah, go.

12 MR. WENGER: Jake Wenger, a fourth-generation  
13 farmer here in the Modesto area. I've been raising the  
14 fifth generation, who's actually watching -- been  
15 watching all day on the webcast. And, for three little  
16 kids, keeping them entertained on -- they've even been  
17 getting something out of it.

18 CHAIR MARCUS: That's good. You're allowed to  
19 wave if you want.

20 MR. WENGER: Well, it's bedtime.

21 So, I've been on the board of directors in the  
22 Modesto Irrigation District for three years. And talk  
23 about a tough time to decide to jump into the world of  
24 water and get on an irrigation district board. We --

25 CHAIR MARCUS: Oh, talk about it?

1           MR. WENGER: We get the drought. We end up  
2 with some of the lowest allotments -- or the lowest  
3 allotments we've ever given out to our growers in the  
4 history of the irrigation district. In turn, it's the  
5 lowest allotment to the City of Modesto. We see  
6 significant water cutbacks. We see -- and, during that  
7 process, we have FERC relicensing. And, during FERC  
8 relicensing, we have now the SED process, which, as you  
9 know, goes sort of hand in hand with our FERC  
10 relicensing.

11           And you get through the drought, and, last  
12 year, we really end up in a situation the reservoir where  
13 we had an average year and we filled our reservoir,  
14 because our forefathers had the foresight building a  
15 reservoir with just over 2 million acre-foot capacity,  
16 2,030,000 acre-foot storage capacity. And the average  
17 yield for our watershed is right at 2 million acre-feet.  
18 So, the nice thing is, in a drought year, we had an  
19 average year and were able to pretty much bring our  
20 reservoir back to good levels and come back out of it.

21           And, then, we get hit with the plan that comes  
22 out in September in the SED. And we look at, now we're  
23 losing significant portions of that. And I don't want to  
24 go into a lot of the impacts. You've heard more than  
25 enough of that over the last several days of hearings.

1           But I do want to talk about the possibilities  
2 that are coming through it. And we hear a lot about  
3 alternative measures and what else can we do besides  
4 these impacts that some of them are listed by your staff  
5 as significant and unavoidable.

6           And, Number 1, water will always play a part in  
7 that solution. I think the districts have always  
8 understood that. We've heard time and again that more  
9 water equals more fish. And I think that needs a caveat  
10 and a little more clarity. More water equals more fish  
11 if it's put in the river when the fish are present, at  
12 the right time.

13           CHAIR MARCUS: Right.

14           MR. WENGER: And functional flows are a key  
15 asset in managing and bringing back salmon to the river  
16 system. And when you hear the plan as a base unimpaired  
17 flow plan, it doesn't instill a lot of confidence in the  
18 people who came up that that's what they were hearing,  
19 functional flows. But we hear about we're going to have  
20 releases through the year. We know that there's  
21 carryover storage in the plan. So, already, the plan is  
22 a little bit mislabeled as an unimpaired flow plan,  
23 because an unimpaired flow plan implies no impairment, or  
24 less impairment, and this one, according to your staff  
25 even during one of the technical workshops, there is no

1 scenario that made unimpaired flow work without carryover  
2 storage. And, right there, you have the fight on your  
3 hands that you saw today from a lot of very concerned and  
4 worried people. When you're talking about, for us, Don  
5 Pedro Reservoir, the sixth largest reservoir in  
6 California, the largest built without state or federal  
7 funds, this is people who believe in their water. And  
8 when you see it marked for carryover storage, you start  
9 having very concerned people who are going to come and  
10 speak like they've spoken over the last few days. So, we  
11 know that functional flows is going to be a key part.

12           But what we have been able to do through the  
13 last few years in FERC relicensing is, understand that  
14 we've done over 40 studies on the Tuolumne River during  
15 that time span. And we've found out that habitat  
16 restoration is as critical a component as functional  
17 flows, because you need places for spawning, you need  
18 places for habitat. And the districts have understood  
19 that for a long time. It's not something recent we just  
20 learned.

21           Over the years, since 1996, the districts have  
22 been involved in habitat restoration efforts in a much  
23 larger way. Through the Tuolumne River Technical  
24 Advisory Committee, we've completed four separate  
25 non-flow projects assisted our local fisheries and the

1 Tuolumne River.

2           Three of those projects looked at restoring  
3 habitat by placing different types of gravel in specific  
4 parts of the river to help with assisting different  
5 spawning behaviors, because there isn't a  
6 one-size-fits-all approach to habitat restoration just as  
7 there's not a one-size-fits-all approach to flow.

8           There's lots of other entities that we have  
9 partnered with on the river system, from CDFW to Friends  
10 of the Tuolumne, Tuolumne River Trust, NRCS, East  
11 Stanislaus Resource Conservation District, that we have  
12 worked very well with in making significant improvements  
13 to the Tuolumne River system.

14           In total, the districts have placed  
15 approximately 44,000 cubic yards of gravel habitat  
16 between river miles 50 and 43 since 1996. Additionally,  
17 there has been another approximately 178,000 square feet  
18 of riffle spawning habitat that's been placed into the  
19 lower river by various parties between 1999 and 2003.  
20 So, there has been a lot of significant work that has  
21 already been done. But what can we do?

22           So, a lot of studies that we've been doing  
23 through FERC relicensing has identified other ways to be  
24 able to help the fish. And the primary concern is how do  
25 we help juvenile salmon grow strong in our river so that

1 they can out migrate. Don Pedro studies have identified  
2 at least five reaches of the lower Tuolumne River that  
3 could be targeted with various gravel augmentation  
4 measures to improve the likelihood for successful  
5 spawning and juvenile rearing if we act to improve the  
6 type of sediment upon which the fish depend to lay their  
7 eggs or to raise juveniles.

8 Don Pedro studies have identified in-river  
9 benefits to fish and wildlife by also planting native  
10 riparian vegetation along the sides of the river to  
11 create a more biodiverse habitat along the sides of the  
12 river that offers the benefits of shade and cover. And,  
13 let's be honest, for those of us that like to recreate on  
14 the river, it looks a little better, too.

15 But that alone does not also get us to where we  
16 need to go. Additionally, it's sort of what's become the  
17 four letter word a lot of times in dealing with this  
18 issue, which is "predation." And I know that there's  
19 been a lot of discussion, and you get a lot of the people  
20 from the NGO side and from the fisheries and who -- it's  
21 a word they don't like to hear said. But, if we're  
22 talking about helping a protected species, you also have  
23 to talk about how we're going to deal with the things  
24 that are eating them.

25 And I've heard throughout the hearing that,

1 "Well, more water is going to help that. If we put more  
2 water down, we see predation numbers decrease." Maybe to  
3 a point. But I'll put it a different way. If we're all  
4 leaving here tonight walking across the street to the  
5 parking garage and we found that Modesto had a serious  
6 problem, there was a pack of coyotes that lived in the  
7 crosswalk, and any time that big flush of us was leaving  
8 here to go to the garage and we were getting ripped apart  
9 by coyotes, we'd have a problem. We'd go to the city  
10 council. We'd say, "You have a problem. There's coyotes  
11 in the street by Brenden Theater." And they said, "Don't  
12 worry, we have a solution."

13 CHAIR MARCUS: "We'll send more of you."

14 MR. WENGER: "We're going to widen the  
15 crosswalk to a city block, and, that way, a lot more of  
16 you are going to make it across and we're going to  
17 diminish the problem." The City of Modesto would have a  
18 few people showing up to their counsel to say, "I think  
19 you're missing the point."

20 So, I think when we want to discuss the issue  
21 of predation we do have to understand that it is going to  
22 require addressing and perhaps eliminating some predators  
23 at times. And, when I say "eliminate," we're not  
24 removing a species from the river system. But we did  
25 find that during our studies, in 2012, for instance,

1 during FERC, we did a predation study that determined  
2 that 96 percent of juvenile salmon were lost due to  
3 predation in that year. That was a drought year, and you  
4 can add all the caveats. FERC even went on and we were  
5 asked by some of the state agencies and fish agencies to  
6 do a more detailed study. FERC ordered us to do that  
7 study. We said, absolutely, we'll do it. Not at first,  
8 but we relented and said, okay, we'll go ahead and do the  
9 study. We couldn't get the permit from Fish and Wildlife  
10 to do the more detailed study.

11           So, being that we couldn't get the permit, FERC  
12 went ahead and said that the study that we did perform  
13 would be the study of record for predation for our FERC  
14 license. So, while a lot of people don't agree or find  
15 something else, it is our study of record.

16           So, we do know that predation is going to be a  
17 serious problem. And what we did find is there's a  
18 10-percent reduction in predation, and we saw it in TID's  
19 presentation earlier, would be equal to the benefit that  
20 your staff says we would receive a 35 percent unimpaired  
21 flow. So, now, when you start taking into consideration  
22 functional flows, habitat restoration, and depredation,  
23 you're starting to significantly minimize the impacts on  
24 our communities while extremely benefiting the salmon  
25 population on the Tuolumne River. And I think that's

1 what we've all been pushing for.

2           And we've kind of gotten a little away, and I  
3 think it's good from the argument that it's fish versus  
4 farmers, because it's not. It's more communities. But  
5 it reminds me of a quote that's one of my favorite  
6 quotes, by William Jennings Bryan, who said, "The great  
7 cities rest upon our broad on fertile plains. Burn down  
8 your cities and leave your farms, and your cities will  
9 spring up again as if by magic. But destroy our farms,  
10 and grass will grow in the streets of every city in the  
11 nation." The interesting thing about this plan is it's  
12 not just the farms that are threatened, it's the farms  
13 and the cities. And if we burn down the farms and the  
14 cities in the Central Valley, we have nothing left.

15           So, I appreciate that your Board has asked for  
16 voluntarily agreements and made it very clear that you  
17 would look for voluntarily agreements. But I think we do  
18 need more assistance in that because, on one hand, we've  
19 got a 3,800-page document of things that make people very  
20 unhappy, and, on the other side, we've got something  
21 that's not very specific that's really two words,  
22 "voluntary agreements." But being that you are the  
23 governing body that would have to accept any voluntarily  
24 agreement, I think it would be helpful to find out, what  
25 would you like to see as part of voluntary agreements?

1 Is there biological objectives that you would like to see  
2 maintained? Who are the parties that would you like to  
3 see involved and participating in this? What is the time  
4 frame that you would like to see this happen in? And  
5 when we talk about working with the Board, I think this  
6 would be a great step in being able to mend some of that  
7 miscommunication that's happened and set up some  
8 guidelines to provide these voluntary agreements their  
9 best chance for success.

10 I think along with that, we would like to join  
11 the U.S. Fish and Wildlife, Bureau of Reclamation, the  
12 Department of Energy and those who have asked for 120-day  
13 extension on the comment period, I think that would be a  
14 wise decision and helpful in pushing forward on voluntary  
15 agreements so that we at the districts and those in the  
16 area can continue to work with you guys and the state  
17 agencies and the fish agencies and the environmental  
18 organizations that we've already been working with to  
19 develop a plan that will avoid these significant and  
20 unavoidable impacts that are in the SED.

21 Thank you.

22 CHAIR MARCUS: Thank you very much.

23 (Applause.)

24 MS. LUCAS: Good evening.

25 CHAIR MARCUS: Evening.

1 MS. LUCAS: Thank you all very much for staying  
2 this late.

3 COURT REPORTERMR. PETTY: Can you speak more  
4 directly into the microphone, please?

5 MS. LUCAS: Okay.

6 CHAIR MARCUS: Yes, just pull it closer to you  
7 so you don't have to lean forward.

8 MS. LUCAS: Good evening. Thank you all very  
9 much for staying this late and for coming to Modesto.

10 As you've been told, I'm Ronda Lucas, and I am  
11 the General Counsel of Modesto Irrigation District. I'm  
12 even newer to Modesto Irrigation District than Director  
13 Wenger in that I was hired, I believe, ten months ago.  
14 So, I guess I should thank you for making my career so  
15 exciting and challenging in my new role at Modesto  
16 Irrigation District.

17 I would like to take a few minutes to do that  
18 awful thing we lawyers have to do and talk a little  
19 boring process and point out to you some of what we  
20 consider to be just some legally deficient flaws in the  
21 SED.

22 As you all know, the SED is a CEQA-equivalent  
23 document.

24 CHAIR MARCUS: Right.

25 MS. LUCAS: It is to inform you, because you

1 have a difficult job to do, and we understand that. You  
2 have to balance the needs of the fish, the needs of  
3 communities, the needs of agriculture. And that is  
4 really difficult.

5           When you have a document that is so  
6 fundamentally flawed that it doesn't give you a clear  
7 picture about tradeoffs, about assumptions, doesn't even  
8 clearly define your project, it makes your job almost  
9 impossible. And, unfortunately, the SED as currently  
10 written, in our opinion, respectfully, is deficient on  
11 its face because it doesn't adequately define the  
12 project.

13           Mr. O'Laughlin in Merced walked you through  
14 this somewhat yesterday, and he did a very eloquent job.  
15 We are a member of the San Joaquin Tributaries Authority.  
16 We obviously concur with his opinion and support his  
17 comments. I will not go into great detail there. But I  
18 would like to highlight, your project is an unimpaired  
19 flow, we believe. It's a 40-percent unimpaired  
20 flow -- or it's a range, excuse me, 30 to 50 percent.  
21 Your project is not a block of water. It's not  
22 flow-shifting measures. It's not carryover storage  
23 capacity. In fact, those things aren't analyzed in any  
24 great detail. They're just assumptions baked into your  
25 models. And, so, that is a fundamental flaw on its face.

1           Also, when your staff ran the models to support  
2 the SED and they just baked in carryover storage, they  
3 left out one critical aspect, you don't have a right to  
4 that carryover storage, arguably. We, as the Modesto  
5 Irrigation District, in partnership with the Turlock  
6 Irrigation District, as has already been stated, built  
7 Don Pedro. We are the trustees of that project, of that  
8 asset. We have constitutional obligations when it comes  
9 to the rates that we place upon our members, our  
10 customers, about what we can charge them, how we charge  
11 them, and that the benefits that we're charging them for  
12 stay in the district.

13           One of the huge benefits of Don Pedro is  
14 storage. We can't just give it to you. And, yet,  
15 without it, your models, your assumptions, don't work.  
16 That's a fundamental flaw on its face. And I don't,  
17 frankly, know how you get around it, respectfully.

18           I'm willing to work with you. We are clearly  
19 willing to have discussions with you. But these  
20 fundamental flaws have to be fixed in order for you to  
21 make an informed decision and do your job to balance the  
22 needs.

23           Another technical problem that we see with the  
24 SED -- and this is just a handful I'm going to touch on  
25 briefly. We will provide you much more detailed

1 comments, I can assure you.

2 CHAIR MARCUS: We need that, yeah.

3 MS. LUCAS: As I stated before, your project  
4 appears to be an unimpaired flow objective, or a regime,  
5 30 to 50 percent. And pages upon pages of the SED are  
6 dedicated to analyzing and reporting the unimpaired flow  
7 and its various percentages on the three rivers. And you  
8 guys -- your staff undertakes this exercise because, as  
9 you state in Chapter 19, *The Analysis of Benefits*, quote,  
10 "Using a river's unaltered hydrographic condition as a  
11 foundation for determining ecosystem flow requirements is  
12 well supported by scientific literature." You go on to  
13 state, "Developing ecologically protective flow  
14 prescriptions concur that mimicking the unimpaired  
15 hydrographic conditions of a river is essential to  
16 protecting populations of native aquatic species and  
17 promoting natural ecological functions." And you have  
18 statements like this throughout the document. However,  
19 even the SED acknowledges that the unimpaired flow does  
20 not represent the unaltered pre-development flow regime  
21 to which the fish would be adapted. Native fish could  
22 not possibly be adapted to unimpaired flows, because  
23 unimpaired flows are a human invention and have never  
24 actually occurred in nature. So, it is impossible that  
25 these species would be somehow adapted to a flow regime

1 that never existed.

2           This basic fact undermines the SED's most  
3 fundamental underlying principle. In the end, your staff  
4 recognized the problem and presented, by this logic and  
5 technical flaws -- presented with this logical and  
6 technical flaw, found it necessary to declare by  
7 definition in Appendix C, quote, "For the purposes of  
8 this report, a more natural flow regime is defined as a  
9 flow regime that more closely mimics the shape of the  
10 unimpaired hydrograph."

11           In March of this year, the state agency that is  
12 expert in water resources, the California Department of  
13 Water Resources Agency, issued a report, Page 1 of which  
14 in the Executive Summary states unequivocally, quote,  
15 "Unimpaired flow estimates are theoretical in that such  
16 conditions have not occurred historically. In sum, the  
17 findings of this report..." and, again, this is the  
18 Department of Water Resources report, "...showed that  
19 unimpaired flow estimates are poor surrogates for natural  
20 flow conditions." So, your underlying premise is flawed.

21           And then the problem is compounded because, in  
22 listening to staff, particularly at the December 5th  
23 Technical Workshop, when we heard a little more about  
24 this carryover storage that was baked into the models and  
25 not fully disclosed or analyzed, it became clear that

1 this unimpaired flow really turned into a block of water,  
2 and it just magically morphed into a block of water.

3           So, after spending large amounts of time and  
4 pages stressing the importance of providing flows that  
5 mimic the natural flow regime of the eastside tributaries  
6 and the lower San Joaquin River and trying to show that  
7 unimpaired flow accomplishes this, the SED and your  
8 staff's description of how this plan is going to work  
9 completely abandons the very basis for its existence.  
10 And none of this is truly analyzed in a CEQA context.  
11 This is hugely problematic.

12           The flow shifting that has to occur causes huge  
13 amounts of water. For what reason? That's not an  
14 unimpaired flow. That's a block of water. Do you want  
15 an unimpaired flow, or do you want a block of water?  
16 Those are two fundamentally different approaches. And  
17 the distinction is critical. The block-of-water concept  
18 is why so many in this room and throughout this region  
19 believe this is a naked water grab. That's not an  
20 unimpaired flow.

21           The other problem -- one of the other problems  
22 with the document is, as we have all heard, we're  
23 concerned about the actual benefits you will see to  
24 Chinook salmon. I won't get into the 1,100 number. I  
25 think it's been illustrated that that is on your graph

1 and it's in your chart. But what I would like to stay is  
2 that the only quantitative -- it is the only quantitative  
3 estimate in the 3,500 pages on the effect of the roughly  
4 300,000 acre-foot take of flow from us and the water  
5 users in this valley. We can sit -- and it  
6 will -- again, it's about 1,100.

7           But we call this the one-percent solution.  
8 Because the SED reports that the San Joaquin River fall-  
9 run Chinook population makes up about five percent of the  
10 total Central Valley fall-run Chinook population, and  
11 that's what is actually listed, is the Central Valley  
12 fall-run Chinook population. So, a 10-percent increase  
13 in the San Joaquin River will mean less than a 1-percent  
14 increase overall to the Central Valley fall-run Chinook  
15 population at a cost of 300,000 acre-feet of water,  
16 billions of dollars, lost revenue, devastating impacts to  
17 some of the most impoverished communities here in this  
18 region, a loss of food security and food viability,  
19 devastating impacts to local schools, increases in crime,  
20 and the list goes on and on. That doesn't appear to be a  
21 very well placed balance.

22           I'm about out of time, so one other flaw that I  
23 would like to hit upon, that it is a broad statement, is  
24 the use of averages. Frankly, the use of averages hides  
25 the true impacts and makes the analysis almost impossible

1 to really figure out. It masks the true impacts in the  
2 most critically dry years, which is where it matters  
3 most. That's when we need the water most, that's when  
4 the fish need the water most.

5           And I would just like to end with this useful  
6 analogy to drive home the point about averages. Let's  
7 pretend that all of us here today were locked in this  
8 room and it was airtight. And we're looked in here for  
9 24 hours. But, don't worry, they're going to pump in  
10 oxygen for 22 of those 24 hours. That means there's no  
11 oxygen for two of those hours. But, overall, averaging  
12 throughout the day, we have a 92 percent supply of the  
13 needed oxygen. That's a pretty good average, but we're  
14 all dead. That's the problem with using averages.

15           I thank you very much for your time. I want to  
16 assure you, this is our river, this is our home, we are  
17 committed to fixing the river and we know how to do it.  
18 We stand ready, willing, and able, but not at the cost of  
19 our water rights, not at the cost of our growers, not at  
20 the cost of this entire community. Please do not water  
21 this valley and destroy this region.

22           Thank you.

23           CHAIR MARCUS: Thank you.

24           (Applause.)

25           CHAIR MARCUS: Thank you. A lot to think

1 about. That was very helpful there.

2 Next, Western United Dairymen. Thirty minutes.

3 Thank you very much for joining us.

4 MS. RAUDABAUGH: Thank you, Madam Chair.

5 CHAIR MARCUS: And for your patience as well.

6 MS. RAUDABAUGH: My pleasure.

7 CHAIR MARCUS: Just wait one second so I can --

8 Okay.

9 MS. RAUDABAUGH: Green light?

10 CHAIR MARCUS: Yeah.

11 MS. RAUDABAUGH: All right. Thank you, Madam  
12 Chair, members of the Board. I appreciate you extending  
13 this hearing, the opportunity to the members of the  
14 public. My name is Anja Raudabaugh. I am the CEO of  
15 Western United Dairymen. With my today, is Paul Sousa,  
16 our Director of Regulatory Affairs. He's here to back me  
17 up on quite a few of the technical details. He's usually  
18 wading in manure management all day long.

19 The Western United Dairymen is a voluntary  
20 trade association that -- and I'm going to move this  
21 along because I know that -- I recognize I'm probably the  
22 last one going, so -- I know everyone's been very patient  
23 today.

24 We're a voluntary trade association that  
25 represents a majority of the dairy farms in the state. A

1 state where dairy is the number one commodity at a farm  
2 gate value of \$6.3 billion. This is the value of the  
3 commodity, not what the dairy family actually makes.

4 Dairy is unique to California's climate,  
5 geographic location in the world, and is in a symbiosis  
6 with all of California agricultural commodities.

7 Dairy families in California are highly adapted  
8 to their regions and remain codependent on agriculture's  
9 regional successes and failures. Ninety-nine percent of  
10 all dairies in California are family owned. The other  
11 one percent belong to the state in a different capacity.

12 The key survival component of the California  
13 dairy family has been their enhanced ability to diversify  
14 their components. Our consumers have a very strong  
15 desire for their products to be green, environmentally  
16 friendly, and so the industry has responded to reducing  
17 its carbon footprint by over 35 percent in ten years.

18 The California dairy industry, however, is in  
19 rapid decline. You can see the milk production in pounds  
20 year over year. We have just broken a 23-month  
21 consecutive decline in milk production. So,  
22 consequently, you see the average number of dairy farms  
23 in California rapidly declining. That is a red bar going  
24 down. We have lost almost 58 dairies just in the last  
25 six months in the state.

1 CHAIR MARCUS: That's actually a very good  
2 chart to have, because I know there's been so many  
3 consolidation. But that shows the actual amount is also  
4 down, it's just not consolidation.

5 MS. RAUDABAUGH: Yeah. And consolidation is --

6 CHAIR MARCUS: It's a helpful chart.

7 MS. RAUDABAUGH: -- pretty misleading because,  
8 again, we are talking about the reduction in actual dairy  
9 families even when that happens.

10 CHAIR MARCUS: Right. Right. Yeah. Right.

11 MS. RAUDABAUGH: So the California dairy  
12 industry's costs of production have been exceedingly  
13 high, essentially since the drought began. You can see a  
14 CDFA based chart where the cost of production really has  
15 hit an all-time high and sustained itself at a relatively  
16 high level since the drought began.

17 The California dairy industry benefits  
18 consumers, however, we have been able to keep a fairly  
19 average low consumer cost, and their consumers have  
20 benefitted from relatively low milk prices, which assures  
21 the product that is very healthy is also affordable.

22 The dairy industry is actually highly  
23 codependent on composting, and eliminates significant GHG  
24 emissions through its production practices.

25 This is a graph that shows the relationship to

1 almond whole values. So, again, the two number one  
2 industries, the one and two, dairy and almonds, are  
3 inextricably linked and one actually cannot exist without  
4 the other. We tend to feed almond hulls. It's a  
5 carbohydrate-based component in our TMR. So, we take  
6 what would ordinarily go into landfills and turn it into  
7 feed. And that's something that we're very proud of.

8           This is kind of something to lighten up the  
9 mood, pizza consumption is the heart of America. On any  
10 given day, one in eight Americans eat pizza.

11           CHAIR MARCUS: Oh, you're just trying to  
12 compete with coyotes.

13           MS. RAUDABAUGH: It's really a hard act to  
14 follow.

15           CHAIR MARCUS: The coyotes is really tough to  
16 beat.

17           MS. RAUDABAUGH: And we probably have more  
18 coyotes than we do pizza, so -- you know.

19           But one in four boys between six and nine years  
20 old actually eat pizza delivery every day. Because of  
21 our love for pizza, mozzarella is America's favorite  
22 cheese. And with per capita consumption of more than 11  
23 million pounds per year -- excuse me -- 11 pounds per  
24 year per family.

25           CHAIR MARCUS: These are some great facts.

1 MS. RAUDABAUGH: Almost 60 percent of the  
2 cheese that California produces is mozzarella. And that  
3 ties the California dairy industry even more closely to  
4 America's love for pizza.

5 CHAIR MARCUS: Wow.

6 MS. RAUDABAUGH: Just if you needed something  
7 that was more relatability.

8 CHAIR MARCUS: That's right. And Sac Valley  
9 rice farmers are sushi. It's amazing.

10 MS. RAUDABAUGH: I'll leave that commodity out  
11 of the conversation, off the table, at the moment.

12 CHAIR MARCUS: That's right. Sorry.

13 MS. RAUDABAUGH: It's all good.

14 So, again, interest in, eggnog is actually  
15 rising. You can see that the peaks represent something  
16 around the holidays, and we are on track with selling  
17 more eggnog this year than we have in a very long time.  
18 So, we're very proud of that. One hundred and  
19 thirty-five million pounds of eggnog is consumed in the  
20 United States each year. That's a lot of eggnog.

21 One of the major flaws that we have found with  
22 the proposal is that GHG emission impacts were not  
23 analyzed in the document. The California dairy industry  
24 has recently been regulated for methane, which is a  
25 short-lived climate pollutant, classified as a GHG.

1 Methane's ability to be quantified by both the  
2 ARB and the industry is not finite or accurate. We have  
3 very few reporting tools that actually quantify that, and  
4 we are right now trying to hit and meet targets that we  
5 cannot identify baselines for.

6 The increase in GHG as a result of the SED  
7 proposes a serious risk of non-compliance for the dairy  
8 industry because of subjective baselines. We're very  
9 alarmed about that.

10 And shifting river flows earlier in the year  
11 reduces hydropower, which is a GHG neutral power source,  
12 during the peak summer power demand. The loss of power  
13 is likely to be at least partially offset by power  
14 sources with greater GHG emissions.

15 And, if dairies cannot grow their feed locally,  
16 they will likely purchase or grow feed in more distant  
17 places, increasing transportation emissions and,  
18 therefore, increasing your GHG linkage issues in the  
19 State of California.

20 Continuing on, the GHG emission impacts will be  
21 increased under the plan. As a result of not having  
22 surface water available to grow their feed, the  
23 inevitable shutdown of dairies in California will lead to  
24 major GHG leakage from the displacement of this commodity  
25 elsewhere in the world.

1           Other countries located on the Pacific Rim that  
2 will be natural trade partners for California dairy need  
3 -- and the U.S. dairies' needs are not a fraction as  
4 carbon compliant as we have become.

5           The conversation about water quality and  
6 CV-SALTS is very relevant to this Board. And we'd  
7 certainly like to touch on that briefly. Open to more  
8 questions. But it is a process that we are fully  
9 committed to and have a tremendous amount of investment  
10 in. We believe wholeheartedly that the CV-SALTS process  
11 will benefit all users and have some long-term goals that  
12 we can all meet. It's been working with stakeholders to  
13 develop a regulatory process that allows more certainty  
14 in industry permitting while ensuring that everyone gets  
15 safe drinking water.

16           Without high quality water to recharge our  
17 aquifers, groundwater quality will decline, as we have  
18 seen as a result of the drought to date. I know you know  
19 that. But this leads to water quality issues for one had  
20 everyone, especially for disadvantaged communities, which  
21 we happen to surround. CV-SALTS has been working with  
22 those disadvantaged communities along with many, many  
23 varieties of stakeholders to address this issue but plans  
24 to make it -- but this plan makes its job quite a bit  
25 more difficult.

1           The State Water Resources Control Board should  
2 consult with CV-SALTS to minimize the impact of this plan  
3 on disadvantaged communities and the CV-SALTS efforts.  
4 And if you need, there is lots and lots of documents that  
5 we can provide, and we'll be providing in our written  
6 comments for your reference.

7           The document fails to consider nutrient  
8 management in the economic analysis. Livestock  
9 operations, for example, must take into consideration  
10 nutrient management at all times. It's one of our number  
11 one concerns in the dairy industry.

12           And while producing alfalfa may be a low value  
13 use of lands, as stated by the document, livestock  
14 operations may not be presented with a clear choice to  
15 fallow that land or convert it to tomatoes, for example,  
16 because they need to spread their manure out.

17           Regulations state that the amount of nitrogen  
18 you can apply is tied directly to the amount of nitrogen  
19 you can remove. So simply having the acres to do it does  
20 not work if there's no crop to remove the nitrogen.

21           By omitting this linkage between land use and  
22 livestock operations, the result of the economic study  
23 are skewed and inaccurate.

24           Again, continuing on the failure to consider  
25 nutrient management in the economic analysis. According

1 to the conclusions of your own economic study and your  
2 staff has derived from this proposal, optimal returns to  
3 farmers are reached only as water becomes scarcer. And  
4 the crops most affected are pasture, alfalfa, rice, and  
5 other field crops.

6           The document states that these crops face the  
7 largest reduction because they require relatively high  
8 water use and/or generate lower net revenue per acre when  
9 considered -- compared to annual crops, such as almonds  
10 or pistachios. The modeling results predict that the  
11 higher value crops, such as tomatoes, are less affected  
12 by reduced surface water diversion than lower value crops  
13 because farmers would be expected to fallow lower value  
14 crops first.

15           Decisions regarding land use sometimes are part  
16 of an entire operation and cannot be isolated. Livestock  
17 operations, for example, must take into consideration  
18 nutrient management. While producing alfalfa may be a  
19 low value use of the land, livestock operations may not  
20 be presented with any further clear choice that that land  
21 has to be fallowed, and they need it to spread their  
22 manure.

23           Again, continuing on this topic. Manure  
24 management, air quality, and water quality are  
25 inextricably linked to operating a sustainable dairy that

1 meets with California's high standards of green progress.

2           The SED will force dairies out of compliance  
3 with most of their operating permits and all of their  
4 operating regulations as a result of restricted surface  
5 water.

6           Moving into some of our comments with more  
7 relative terms about CEQA. And this comes from the  
8 perception that CEQA is also here to save us as a  
9 protected resource in California.

10           The distinction is really important between a  
11 substitute project EIR -- subject EIR versus a project  
12 EIR because the SED represents a deferral of  
13 environmental and economic analysis. Environmental  
14 analysis in the document is deficient towards local  
15 agriculture, local water supplies, and total impacts,  
16 which we just discussed as part of the economic analysis,  
17 and instead the SED explicitly defers analysis over 800  
18 times in these same resource areas.

19           The full project EIR should be conducted that  
20 includes a full analysis under the Public Resources Code,  
21 including, but not limit to proper use of what we are  
22 labeling as a SWAP economic analysis, any full economic  
23 analysis for IMPLAN.

24           We have -- I've provided you with supplemental  
25 written comments. I don't want to bore you or the

1 audience with -- this is an expert opinion from an  
2 economic and agriculture economist that we have under our  
3 employ.

4 Continuing with some of the deficiencies, and I  
5 know that MID did an excellent job of covering some of  
6 our shared CEQA deficiencies, but because of the  
7 geographic significance of this proposal, this should  
8 equally be considered as part of our programmatic  
9 document.

10 The suggestion in the document that the  
11 previous Bay-Delta Plan is the programmatic document for  
12 which all analysis and decisions should be tiered and  
13 plan amendments is completely unreasonable, in our  
14 opinion.

15 There's no reference to SGMA. We've been  
16 through this. SGMA will have dramatic effects on the  
17 region. And certainly not a legal use of the term "later  
18 activities" of a geographic region.

19 All of the baseline conditions, especially as  
20 it comes to nutrient management for the fish, for  
21 agriculture, and for climate change, have changed  
22 dramatically compared to the prior programmatic document.

23 So, again, moving into the topic of deferral of  
24 analysis, the CEQA requires that the significant impacts  
25 to any one or all resource areas must not be deferred to

1 a later date. In all categories of regulatory compliance  
2 for the dairy industry, impact is deferred.

3 Nutrient management equals water quality for  
4 us. They are completely linked and we cannot separate  
5 the two.

6 GHG, short-lived climate pollutant management,  
7 equals air quality for us. We cannot separate the two.

8 The real cry for social justice here is equally  
9 important for the Board's consideration, and CEQA is  
10 required to save agriculture in this case.

11 Suggestions for collaboration. I know this has  
12 been a very hot topic today, so I'd like to see if I can  
13 touch on it. Because the California dairy industry is  
14 currently in sharp decline, any further regulatory  
15 constraints on the industry cannot be suggested as  
16 possibilities for collaboration. Areas that are  
17 currently within the dairy industry's scope of production  
18 costs include, substantial and ongoing investment in the  
19 CV-SALTS process, substantial and ongoing investment in  
20 regional habitat solutions for salmon and fish  
21 populations. We are heavily invested with those in our  
22 local irrigation districts, and we look forward to seeing  
23 more productive conversations about that. Regulatory  
24 costs associated with water quality compliance for both  
25 the CDQAP program and future WDR requirements for the

1 industry are something we also look forward to working  
2 and collaborating with you on.

3           So, summary of comments. There are major  
4 economic flaws in the SED model as it pertains to the  
5 dairy industry. The lack of analysis for manure  
6 management, nitrogen application and overall nutrient  
7 management makes the analysis flawed and inaccurate.  
8 Tiered analysis from an aged programmatic document has  
9 resulted in systematically incorrect baseline assumptions  
10 for the dairy industry. The industry is ready to work  
11 collaboratively within its existing cost of production,  
12 but cannot suggest any further regulatory constraints as  
13 a viable option. CEQA is here to protect us all.  
14 Specifically, we feel that agriculture is also an  
15 endangered species. There's actually far more salmon  
16 than there are of us. The real cry for social justice is  
17 here and equally important for the Board's consideration.

18           I'd like to kind of finish by suggesting that  
19 when I look at the California dairy industry, I cannot  
20 talk about solutions for any one sector. I can't talk  
21 about the California dairy industry and not talk about my  
22 Southern California dairies. I can't talk about the  
23 industry and not consider my Northern California dairies.  
24 I have to look at it as a whole. And I don't think that  
25 you can look at water quality without discussing all of

1 the options that are available to fix the Delta. And  
2 that's really important for us to consider as a whole  
3 because I have dairies all over the state, and I know you  
4 consider that.

5           So, with that, I am here to answer any  
6 questions.

7           I'm not sure, Paul, if you want to add  
8 anything?

9           MR. SOUSA: I'll just briefly add a few words  
10 to that.

11           Again, I'm the Director of Environmental  
12 Services of Western United Dairymen. I've actually  
13 toured some of you on dairies. I look forward to maybe  
14 more tours, if you would be interested in doing that.

15           My family also has dairies in the Turlock  
16 Irrigation District. My father started a dairy in 1971.  
17 And, so, I also have a personal connection to this in  
18 addition to representing our members.

19           Some of the things we've heard here today, I  
20 just wanted to summarize I think that are very important.  
21 That the plan must consider SGMA. The plan states that  
22 groundwater will replace lost surface water, but SGMA is  
23 the law of the land and it has to be considered. And, in  
24 consideration of SGMA, the economic costs are going to be  
25 higher because there will be more lands fallowed and

1 lost, and that needs to be incorporated into the plan.

2 We also heard a lot about settlements today.

3 And I just -- if this is about the fish, you know, water  
4 is not going to be the only piece. We've kind of heard  
5 that. But I think that settlements should look first at  
6 non-flow elements, I think that's very important, which  
7 achieves the same goals with lower economic costs.

8 So, in closing, I just want to say, please work  
9 with the districts. I think we've kind of heard that.  
10 The Modesto and Turlock Irrigation District were here  
11 earlier today. I know you've heard from the other  
12 districts. Please work with them to achieve solutions  
13 that we can all live with.

14 And I thank you again for coming to Modesto and  
15 staying out so late to listen to all of us.

16 Thank you.

17 CHAIR MARCUS: Thank you. And thank you. That  
18 was a very good presentation. And thank you for leaving  
19 it with us. And we'll read this as well.

20 MS. D'ADAMO: Now, I want pizza.

21 CHAIR MARCUS: Yeah, now you want pizza?

22 MS. D'ADAMO: So I realize you're talking about  
23 Western United Dairymen has a broad territory, so it's  
24 just not these three counties. But if you were to look  
25 at these three counties, could you compare the three

1 counties to the rest of the state in terms of the  
2 averaged dairy size? Because I think, overall, we're  
3 talking about smaller dairies here.

4 MS. RAUDABAUGH: That's true. These are, I  
5 would say, mid-sized dairies, so between 500 to 1,000  
6 cows is the average for these three counties. But,  
7 representatively, there are about half of the dairies in  
8 these three counties compared to the rest of the state.  
9 So, this is a lot of the California dairy industry  
10 located and affected directly by this SED proposal.

11 MS. D'ADAMO: Okay. And then your presentation  
12 was excellent. Thank you very much. But, in very  
13 simplistic terms, as I understand it, so our staff is  
14 saying that, in the economic analysis, that there's an  
15 assumption that the water cuts are going to be absorbed  
16 by some of the lower value crops and water would go to  
17 the highest producing crops. But if you have a dairy  
18 and, Paul, maybe you would be the one to answer this  
19 question, if you have a dairy and you're growing alfalfa,  
20 you're growing feedstock for your dairy, are you going to  
21 be willing to fallow that ground so that you can move it  
22 to or sell it to somebody else, and what impact would  
23 that have on your dairy?

24 MR. SOUSA: Yeah, I can take this one. So,  
25 yeah, the report looks at shifting crop values and going

1 from low value to high value crops in order to justify  
2 the costs. But you're not able to do that as a dairy for  
3 a couple of reasons. Because your output is milk. It's  
4 not like you have land that, you know, tomatoes this  
5 year, bell peppers next year, maybe I'll plant some trees  
6 on half of it. You know, what you're producing is milk.  
7 And you need feed for your cows and you need to balance  
8 it with, Anya was saying, your manure that your cows are  
9 producing with the crops that you're growing.

10           So, dairy farmers don't have that ability to  
11 shift from year to year the crops. They need to grow  
12 crops that they can apply the manure to and that they can  
13 feed to their cows.

14           So, that flexibility that the economic analysis  
15 looked at is not there for dairy farmers. We're much  
16 more tied to the crops that we have. Their value on  
17 what's coming off of that field might look like low  
18 value, but, ultimately, what we're sending to market is  
19 the milk.

20           MS. RAUDABAUGH: And can I add to that? You  
21 hear a lot about this conversation from agriculture about  
22 the price takers versus price makers and let me see if I  
23 can do you one better. The California dairy industry is  
24 a California minimum state regulated price. So, our  
25 price is not within our control, and it is actually set

1 by the State. So, we have no ability to pass on any of  
2 these costs, which is why I've said very clearly, I hope,  
3 that we can only suggest things that are currently within  
4 our estimated cost of production.

5 MS. D'ADAMO: So getting back to the question  
6 that I had, would you have information that you could  
7 provide to us regarding the amount of acreage that's  
8 under control of those that are operating dairies. So,  
9 I'm just guessing, perhaps the economic analysis might be  
10 correct with respect to acreage that is not feedstock  
11 that is not grown by those that are operating dairies.  
12 So, for example, if an irrigation district did -- and I  
13 know many irrigation districts don't even allow for this,  
14 but if they were to change their rules to allow water to  
15 be moved from one farm to another, that perhaps those  
16 that don't have a dairy, they're selling the feedstock to  
17 a dairy, perhaps they would decide to move it to someone  
18 that's willing to pay more. In other words, someone  
19 that's growing permanent crops. Do you have some  
20 information that you could provide to our staff regarding  
21 the amount of acres that are under control by those that  
22 are operating dairies? In other words, that percentage  
23 would probably -- needs to be taken off the table, as far  
24 as, you know, moving it to permanent crops. Perhaps  
25 those that, you know, could make the choice because they

1 don't own a dairy, perhaps they would, if the irrigation  
2 rules would change, perhaps they might be willing to  
3 consider that. But just to give us an idea on, you know,  
4 what those percentages might be.

5 MS. RAUDABAUGH: I think we can do that. I  
6 think we would certainly like to defer to a colleague  
7 that testified on behalf of Yosemite Farm Credit. To be  
8 frank, it would depend on the way their equity situation  
9 was.

10 MS. D'ADAMO: Uh-huh.

11 MS. RAUDABAUGH: I don't see a whole lot of  
12 dairymen being able to -- because of their nutrient  
13 management requirements and their regulatory burdens,  
14 being able to make that decision. I mean --

15 MS. D'ADAMO: Oh, no, I'm assuming that they  
16 wouldn't. It wouldn't make sense.

17 MS. RAUDABAUGH: No, they would be going out of  
18 business.

19 MS. D'ADAMO: Yeah. I'm really talking about  
20 acreage that is under control of someone that doesn't  
21 have a dairy.

22 MS. RAUDABAUGH: Sure. I will work  
23 to -- you've asked me that a couple different ways, so I  
24 think we can provide you more. We're going to provide  
25 some robust written comments by the end of the comment

1 period.

2 MS. D'ADAMO: Thank you.

3 MS. RAUDABAUGH: Yeah, definitely.

4 CHAIR MARCUS: Thank you. That's really good.

5 (Applause.)

6 MS. RAUDABAUGH: Thank you.

7 CHAIR MARCUS: Very helpful. You know I have a  
8 weak spot for dairies. I know, I go all the way back to  
9 DQAP, I know, Dairy Quality Assurance Partnership.

10 All right. Well, thank you very much.

11 The hearing will reconvene on January 3rd in  
12 Sacramento.

13 But, before we close, I really, really, really  
14 want to thank the people who came today, not just for the  
15 good insights, a lot that we need to take seriously and  
16 follow-up on and think about, but for the quality of the  
17 humanity and the spirit with which folks made their tough  
18 comments but which really helped give us a flavor for the  
19 impact on people but also the specific issues and the  
20 offers of assistance to work with us.

21 I think -- I always actually like spending time  
22 in the Central Valley more than anywhere else because of  
23 that quality, with only a few exceptions, actually. I  
24 think it's a far more effective way to present, frankly,  
25 and I can guarantee you it's had an impact on all of us

1 just through sharing concerns and thoughts.

2 I think we'll need to do a lot of thinking  
3 about what's been proposed about how we've written  
4 things, how we've looked at it, and what we're going to  
5 do. And we'll, as is our practice, we will take it all  
6 in, talk about it, sleep on it, "water, wealth,  
7 contentment, health" going through my mind before going  
8 to bed. And I just thank you all for being willing to  
9 engage with us. It's very helpful, and we really, really  
10 appreciate it.

11 So, with that, have a good holiday season, and  
12 I'm sure we'll see some of you very soon in the new year.

13 Thank you very much for having us here.

14 (Whereupon, at 7:40 p.m., the hearing was  
15 adjourned, to be continued on Tuesday, January 3, 2017,  
16 at 9:00 a.m.)

17 --oOo--

18

19

20

21

22

23

24

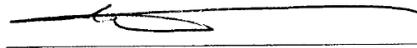
25

**REPORTER'S CERTIFICATE**

I do hereby certify that the testimony in the foregoing hearing was taken at the time and place therein stated; that the testimony of said witnesses were reported by me, a certified electronic court reporter and a disinterested person, and was under my supervision thereafter transcribed into typewriting.

And I further certify that I am not of counsel or attorney for either or any of the parties to said hearing nor in any way interested in the outcome of the cause named in said caption.

IN WITNESS WHEREOF, I have hereunto set my hand this 20th day of December, 2016.



---

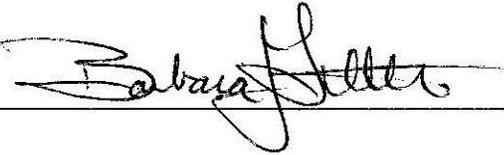
PETER PETTY  
CER\*\*D-493  
Notary Public

**TRANSCRIBER'S CERTIFICATE**

I do hereby certify that the testimony in the foregoing hearing was taken at the time and place therein stated; that the testimony of said witnesses were transcribed by me, a certified transcriber.

And I further certify that I am not of counsel or attorney for either or any of the parties to said hearing nor in any way interested in the outcome of the cause named in said caption.

IN WITNESS WHEREOF, I have hereunto set my hand this 7th day of February, 2017.



A handwritten signature in cursive script, appearing to read "Barbara Little", is written over a horizontal line.

Barbara Little  
Certified Transcriber  
AAERT No. CET\*\*D-520